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**STOPPING WATER POLLUTION AT ITS SOURCE**

**MISA**

Municipal/Industrial Strategy for Abatement

# REPORT ON THE ANALYSIS OF THE QUALITY ASSURANCE AND QUALITY CONTROL DATA FOR THE MISA IRON AND STEEL SECTOR

Ontario

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# REPORT ON THE ANALYSIS OF THE QUALITY ASSURANCE AND QUALITY CONTROL DATA FOR THE MISA IRON AND STEEL SECTOR

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# MUNICIPAL - INDUSTRIAL STRATEGY FOR ABATEMENT

# (MISA)

# REPORT ON THE ANALYSIS OF THE

# QUALITY ASSURANCE AND QUALITY CONTROL DATA

# FOR THE

# MISA IRON AND STEEL SECTOR

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# EXECUTIVE SUMMARY

This report presents the quality assurance/quality control (QA/QC) assessment of the effluent monitoring data collected by the Iron and Steel Manufacturing sector under Ontario Regulation 321/89 as amended to Ontario Regulation 602/89 and Ontario Regulation 139/90.

The MISA Iron and Steel Sector in Ontario consists of seven plants. Four of these are integrated iron and steel plants, two are mini mills, and one is a specialty steel mill.

The MISA Iron and Steel Sector completed its twelve months of effluent monitoring under the Effluent Monitoring Regulation on October 31, 1990. The Status report on the effluent monitoring data was published on September 26, 1991.

The quality assurance and quality control (QA/QC) assessment process described in this report, evaluated the suitability of the effluent monitoring data from the MISA Iron and Steel Sector for use in the effluent limit setting process. This assessment process was based on the approach outlined in the MISA Issues Resolution Process- Final Report Summary September 1991.

The QA/QC assessment results have identified the following 54 parameters that should be limited.

## Candidate Parameters to be Limited

| ATG | Parameter | Integrated Steel Mills | Specialty Steel Mill | Mini-Mills |
|---|---|---|---|---|
| 2 | Cyanide Total | X | | |
| 4a | Ammonia plus Ammonium | X | | |
| 5a | DOC | X | X | X |
| 6 | Total Phosphorus | X | | X |
| 8 | Total Suspended Solids | X | X | X |
| 8 | Volatile Suspended Solids | X | X | X |
| 9 | Aluminum | X | X | X |
| 9 | Cadmium | X | X | |
| 9 | Chromium | X | X | |
| 9 | Cobalt | | X | |
| 9 | Copper | | X | X |
| 9 | Lead | X | | X |
| 9 | Molybdenum | | X | |
| 9 | Nickel | | X | |
| 9 | Vanadium | X | X | |
| 9 | Zinc | X | X | X |
| 10 | Selenium | X | | |
| 11 | Chromium (hexavalent) | | X | |
| 12 | Mercury | X | | |
| 14 | Phenolics (4AAP) | X | | |
| 16 | Bromoform | X | | |
| 16 | Chloroform | | | X |
| 16 | Dibromochloromethane | X | | |
| 17 | Benzene | X | | |
| 17 | Styrene | X | | |
| 17 | Toluene | X | | |
| 17 | m-Xylene and p-Xylene | X | | |

## Candidate Parameters to be Limited

| ATG | Parameter | Integrated Steel Mills | Specialty Steel Mill | Mini-Mills |
|---|---|---|---|---|
| 17 | o-Xylene | X | | |
| 19 | 1-Methylnaphthalene | X | | |
| 19 | 2,4-Dinitrotoluene | X | | |
| 19 | 2,6-Dinitrotoluene | X | | |
| 19 | 2-Methylnaphthalene | X | | |
| 19 | 4-Bromophenyl Phenyl Ether | X | | |
| 19 | 4-Chlorophenyl Phenyl Ether | X | | |
| 19 | Acenaphthylene | X | | |
| 19 | Anthracene | X | | |
| 19 | Benzo(a)anthracene | X | | |
| 19 | Benzo(a)pyrene | X | | |
| 19 | Benzo(b)fluoranthene | X | | |
| 19 | Benzo(g,h,i)perylene | X | | |
| 19 | Benzo(k)fluoranthene | X | | |
| 19 | Benzobutylphthalate | X | | |
| 19 | Bis(2-chloroisopropyl)ether | X | | |
| 19 | Chrysene | X | | |
| 19 | Fluorene | X | | |
| 19 | Fluoranthene | X | | |
| 19 | Indeno(1,2,3-cd)pyrene | X | | |
| 19 | Indole | X | | |
| 19 | Naphthalene | X | | |
| 19 | Perylene | X | | |
| 19 | Phenanthrene | X | | |
| 19 | Pyrene | X | | |
| 25 | Oil and Grease | X | X | X |
| IS1 | Iron | X | X | X |

# INTRODUCTION

Quality assurance and quality control encompass all of the procedures undertaken to ensure that the effluent monitoring data produced are generated within known accuracy and precision. Accuracy can be defined as the degree of agreement of a measured value with the expected value where as precision can be defined as the degree of agreement of measurements as the result of repeated sampling.

Quality assurance is a system of activities whose purpose is to provide the producers and users of data the assurance that defined standards of quality at predetermined levels of confidence are met. Quality assurance is comprised of two elements: quality control and quality assessment.

Quality control is the overall system of guidelines, procedures and practices which are designed to regulate and control the quality of monitoring data with regards to previously established performance criteria and standards.

Quality assessment is the overall system of activities which ensure that quality control is being performed effectively. This is carried out immediately following quality control. It involves evaluating and auditing quality control data to ensure the success of the quality control program.

This report presents the quality assurance/quality control (QA/QC) assessment of the effluent monitoring data collected by the Iron and Steel Manufacturing sector under Ontario Regulation 321/89 as amended to Ontario Regulation 602/89 and Ontario Regulation 139/90.

Under the monitoring regulation each iron and steel plant monitored several process subcategories to provide industry-wide effluent characteristics of all process subcategory streams. All final discharges were also monitored.

The following subcategories were monitored under the regulation:

* Cokemaking
* Ironmaking
* Steelmaking
* Hot forming including continuous casting
* Cold forming including acid pickling

In addition, the following effluent streams were monitored:

* Cooling water
* Emergency overflow
* Storm water
* Waste disposal site
* Storage site

The MISA Iron and Steel Sector completed its twelve months of effluent monitoring under the Effluent Monitoring Regulation on October 31, 1990. The Status report on the effluent monitoring data was published on September 26, 1991. Due to labour disputes, effluent monitoring data and the corresponding QA/QC data for Algoma Steel, Stelco Hilton Works and Stelco Lake Erie Works are available for a period of nine months from November 1, 1989 to July 31, 1990. Appendix I Table 2 outlines the effluent streams monitored in the Iron and Steel Sector during the MISA effluent monitoring period.

Field QA/QC samples were collected from one process stream, one final effluent stream and one cooling water stream from each plant site. The QA/QC data consisted of field QA/QC data submitted by each mill and internal laboratory QA/QC data kept on file at each laboratory that performed sample analysis for the Iron and Steel Sector. Field QA/QC data included travelling blanks, travelling spiked blanks, and duplicate samples for specified frequencies. The laboratory QA/QC data consisted of the results of certain laboratory QA/QC checks (blanks, spiked blanks, spiked samples and replicate analyses as specified in the MISA General Effluent Monitoring Regulation) that were to have been retained for possible inspection/review by the Ministry.

Emphasis was placed on quality control for cokemaking process subcategory and final effluent streams that receive cokemaking process effluent streams. Cokemaking unit operations produce complex effluents which contain a variety of organic and inorganic priority pollutants.

## Importance of the QA/QC analyses

QA/QC is one of the most important aspects of the MISA Effluent Monitoring and Limits Regulations. The QA/QC program includes essential activities such as ensuring the cleanliness of sample bottles, using proper sampling equipment, containers and preservatives, instrument calibration, validation of authenticity of standards, inclusion of blanks, spikes and controls in analytical runs, documenting performance and participating in external round-robins.

The importance of the collection and assessment of QA/QC data is threefold:

1. It serves to identify and assess the significance of:
   - biases i.e. systematic errors inherent in a method or caused by the measurements of laboratory blanks, sampling contamination or calibration errors.
   - chronic contamination
   - data variability

- false results (either positive or negative)
- field sampling or laboratory analytical problems.

2. It is one of the processes necessary to determine the validity of the data reported in the effluent monitoring database.
3. It determines the confidence with which one data set can be compared to another.

# QA/QC ASSESSMENT PROCESS

## 1. SELECTION OF PARAMETERS FOR LIMITS

Appendix I Table 1 outlines the 154 parameters monitored for in the MISA Iron and Steel Plants together with the Regulation Method Detection Limit (RMDL) as well as the Provincial Water Quality Objectives/Guidelines (PWQO/G). Seventeen parameters were monitored daily, thrice weekly and weekly at each process subcategory and final effluent streams. The remaining parameters were monitored on monthly and quarterly basis.

Candidate parameters for limit setting were selected according to the selection criteria defined in the (Issue Resolution Process Final Report, September 1991, Ontario Ministry of the Environment).

In the evaluation of the QA/QC data, emphasis was placed on the parameters that were selected for limit setting. Parameters with QA/QC assessment concerns were identified for possible de-classification as candidate parameters for limit setting. The remaining parameters were investigated for possible false negative results by examining the recovery levels of the travelling spiked blanks to check for under recoveries.

Appendix II Table 1 outlines the sector list of parameters which were selected as candidates for limits at each plant. Appendix II Table 2 outlines the parameters which were selected as candidates for limits for each plant at each effluent stream.

A total of 81 parameters were selected as candidates for limit setting for the Iron and Steel Sector. A total of 76 parameters were selected as candidates for limit setting for the Integrated Iron and Steel plants and a total of 29 parameters for the specialty steel and mini-mills. The parameter pH was not included in the candidate parameter analysis since it will be regulated within the range specified in the Effluent Limits Regulation.

## 2. STRATEGIES FOR DECISION MAKING

The QA/QC assessment process consists of three main steps, each of which is described below:

### STEP 1: RETRIEVAL, SCREENING AND BASIC CALCULATIONS

During retrieval, screening and basic calculations, all analytical results with remark codes ">", "<", "A", <DL", "<T", and "W", and analytical results without a remark code were included in the QA/QC analysis. All data with remark different than the ones mentioned above were excluded because the results were questionable which amounted to about 2.5% of the database.

In sorting the effluent monitoring data, the first step was to classify individual parameters according to their frequency of occurrence and their levels observed in each plant.

Three main categories were used for the frequency of occurrence:

**Frequent occurrence:** Number of observations greater than RMDL was more than 40%

**Infrequent occurrence:** Number of observations greater than RMDL was less than or equal to 40% but more than 1%.

**Non-occurrence:** For parameters monitored on daily, thrice weekly, and weekly frequency, the number of observations greater than RMDL was less than or equal to 1%.

For parameters monitored on monthly, quarterly, and semi-annually frequency, the number of observations greater than RMDL was less than 11 %.

Within both the Frequent and Infrequent Occurrence categories, parameters were further classified according to the levels at which they were observed. The three sub-categories were:

* **High Level** Used to describe quantitative data i.e. presence and actual level of analyte was certain.

* **Medium Level** Used to describe semi-quantitative data i.e. presence of analyte was probable but actual level of analyte may be uncertain.

* **Low Level** Used to describe qualitative data i.e. presence and actual level of analyte may be uncertain.

Based on the classifications of frequency of occurrence and levels observed, the effluent monitoring data can be grouped into the following categories:

**Frequent Occurrence-High Level (FH):**
More than 50% of the parameter's observations were above 5 times the RMDL.

**Frequent Occurrence-Medium Level(FM):**
More than 50% of the parameter's observations were above 2 times the RMDL and the parameter's observations greater than 5 times the RMDL were less than or equal to 50%.

**Frequent Occurrence-low Level (FL):**
More than 40% of the parameter's observations were above the RMDL and the parameter's observations greater than 2 times the RMDL were less than or equal to 50%.

**Infrequent Occurrence-High Level (IH):**
Number of observations greater than RMDL was less than or equal to 40% but more than 1%. Of those observations greater than 2 times the RMDL, more than 50% were higher than 5 times the RMDL.

**Infrequent Occurrence-Medium Level (IM):**
Number of observations greater than RMDL was less than or equal to 40% but more than 1%. Of those observations greater than the RMDL, more than 50% were higher than 2 times the RMDL.

**Infrequent Occurrence-Low Level (IL):**
Number of observations greater than RMDL was less than or equal to 40% but more than 1%. Observations did not fit the criteria for infrequent occurrence at either the high or medium level.

**STEP 2: SORTING AND SUMMARIZING**

Using the effluent monitoring data and the accompanying field QA/QC on a plant by plant basis, the second step was to classify individual parameters according to the frequency of occurrence and their level observed in each effluent stream.

**STEP 3: STRATEGIES FOR THE QA/QC ASSESSMENT PROCESS.**

Classification of parameters according to frequency of occurrence and level of analyte observed dictated the following three strategies for evaluating effluent monitoring data. Each strategy provided guidance in decision-making through the systematic evaluation of specific QA/QC data.

Strategy 1 **Evaluation of Frequent Occurrence Parameters**

Effluent data were considered as being either a satisfactory representation of the actual levels, a possible under-estimate of the actual level, or a possible over-estimate of the actual level of a particular analyte. Assess the likelihood of over-estimation or under-estimation based on the recovery of travelling spiked blanks. Also, assess the possibility of error in blank corrections. Assess precision using field duplicate and ,if necessary, assess precision using laboratory replicates.

Strategy 2 **Evaluation of Infrequent Occurrence parameters**

Effluent data were considered as being either true positive, false negative, or false positive. Assess the possibility for false negative based on the possible under-recovery of travelling spiked blank samples. Assess the likelihood of false positive based on contamination of travelling blank samples. If necessary, determine the possibility of under-correction or over-correction for laboratory blank data.

Strategy 3 **Evaluation of Non-Occurrence Parameters**

Effluent data were considered as being either true negatives or false negative through examination of recoveries for travelling spiked blank data. If necessary, determine the possibility of over correction for laboratory blanks.

In addition to the above strategies, consideration was also given to the following circumstances:

1. Unique parameters which were selected as candidate parameters for limit setting for one plant only. These parameters were investigated for:

   - anomalies in plant process operation
   - special chemicals used at the plant site
   - the possibility of field contamination
   - the possibility of lab contamination

2. Parameters which were selected as candidate parameters for limit setting only for limited number of plants. These parameters were investigated for:

   . use of same contract lab
   . the possibility of lab contamination
   . a similarity in processes or chemicals used

3. Parameters which were selected as candidate parameters for limit setting and found at infrequent high level of occurrence. These parameters were investigated for:

   . the possibility of process change or process upset in the plant

4. Reports from Ministry audits of plants and contract laboratories.

5. Data from other sources, such as pre-regulation effluent monitoring and inter-laboratory studies.

## 3. EVALUATION OF QA/QC DATA

Candidate parameters for limits:

The QA/QC evaluation for the candidate parameters was focused on the following actions depending on the classification of each parameter:

**Frequent Occurrence - High Level** parameters were evaluated for accuracy, recovery, and precision.

**Frequent Occurrence - Medium Level** parameters were evaluated for recovery, precision, and potential for blank bias.

**Frequent Occurrence - Low Level** parameters were evaluated for recovery and potential for false positive.

**Infrequent Occurrence - High Level** parameters were evaluated for process changes and potential for contamination.

**Infrequent Occurrence - Medium Level** parameters were evaluated for recovery and potential for blank bias.

**Infrequent Occurrence - Low Level** parameters were evaluated for potential false positive and false negatives.

**Non-occurrence** parameters were evaluated for potential for false negatives or excessive blank corrections.

**Non-Candidate parameters for limits**

The QA/QC evaluation for the non-candidate parameters was aimed at identifying the parameters with a possible false negative concerns. Non-candidate parameters with average spiked blank recoveries between 40% to 140% confirmed that the parameter should not be a candidate for limit setting. Non-candidate parameters with average spiked blank recoveries lower than 20 percent were identified as parameters with false negative concerns and candidates for further investigation.

## DISCUSSION OF RESULTS

Appendix III describes the QA/QC assessment along with the general conclusion made about the reliability of the effluent monitoring data for each candidate parameter. To facilitate the discussion of the QA/QC assessment for each candidate parameter, summary tables highlighting essential QA/QC data were developed as shown in Appendix IV.

These summary tables were derived from each effluent stream at each plant where QA/QC data were collected during the effluent monitoring period. The detailed QA/QC assessment outputs are outlined in Appendices V to IX.

In assessing the duplicate data, average difference ratios that were less than 1.0 or much less than the average effluent concentration ratio implied that precision was satisfactory. If the data did not meet this criteria, the data were examined further to assess analysis variability.

In assessing the uncorrected monitoring data, average difference ratios which were less than 1.0 or not comparable to the average effluent concentration ratio implied that laboratory blank corrections were insignificant. If the data did not meet this criteria, individual results were investigated further for reliability of blank corrections.

In assessing the travelling blank data, average travelling blank concentration ratios which were consistently less than 1.0 or much lower than the average effluent concentration ratio often indicated that the effluent monitoring data for that parameter were satisfactory. If the data did not meet this criteria, individual results were investigated further. Travelling blank data was used as a site-specific data rather than pipe-specific data.

In this evaluation, average recoveries of travelling spiked blank data of greater than 40% were deemed satisfactory, whereas average recoveries lower than 40% were of concern. Recoveries that were lower than 40% increase the risk of a false negative conclusion as to the presence of a parameter.

Spiked travelling blank recoveries greater than 140% can only be attributed to either data entry errors or field/laboratory contamination. If an over-recovery was due to field contamination, the contamination was identified through the evaluation of travelling blanks.

One of the following conclusions were made about the data for each parameter:

1. Data are of reliable quality.
2. Data are of equivocal quality.
3. Data are of unreliable quality.

A conclusion of equivocal quality was designated to parameters without QA/QC data or to parameters with low effluent monitoring average concentration ratios ( < 2.0 ) for which the reliability of the data cannot be ascertained.

## CONCLUSION

The QA/QC data assessment has provided insight into the selection of the parameters for potential effluent limitations.

A summary of the QA/QC assessment result for each plant in the Iron and Steel Sector has identified 54 parameters that should be limited, 19 parameters with data of equivocal quality, and 8 parameters which have to be removed from further consideration in the development of effluent limits for the MISA Iron and Steel Sector (Table 1).

For the integrated steel mills, the QA/QC assessment has identified 48 parameters that should be limited, 20 parameters with data of equivocal quality, and 8 parameters which have to be removed from further consideration in the development of effluent limits for the MISA Iron and Steel Sector Integrated Steel Mills (Table 2).

For the mini steel mills, the QA/QC assessment has identified 11 parameters that should be limited, 8 parameters with equivocal quality, and 6 parameters which have to be removed from further consideration in the development of effluent limits for the MISA Iron and Steel Sector Mini Steel Mills (Table 3).

For the specialty steel mill, the QA/QC assessment has identified 15 parameters that should be limited, 3 parameters with equivocal quality, and 1 parameters which have to be removed from further consideration in the development of effluent limits for the MISA Iron and Steel Sector Specialty Steel Mill (Table 4).

The QA/QC data assessment for the non-candidate parameters identified nine parameters with possible false negative concerns. These parameters are outlined Appendix III in the discussion section of the QA/QC assessment for non-candidate parameters.

The QA/QC data assessment has confirmed the presence of the parameters listed below in the cooling water streams of the integrated steel mills.

Cyanide Total
Ammonia + Ammonium
DOC
Total Suspended Solids
Aluminium
Vanadium
Zinc
Phenolics (4AAP)
Benzene
Toluene
Fluoranthene
Phenanthrene
Pyrene
Iron

# Table 1
## Potential Candidate Parameters for Limits

| ATG | Parameter | Plant | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Algoma | Dofasco | Hilton | L. Erie | Atlas | IVACO | LASCO |
| 2 | Cyanide Total | 1 | 1 | 1 | 1 | | | |
| 4a | Ammonia plus Ammonium | 1 | 1 | 1 | 1 | | 3 | 3 |
| 4a | Total Kjeldahl Nitrogen | | 2 | 2 | 2 | | 2 | |
| 4b | Nitrate plus Nitrite | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5a | DOC | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5b | TOC | 2 | | 2 | | | 2 | |
| 6 | Total Phosphorus | 1 | 1 | 2 | 2 | | 1 | 1 |
| 8 | Total Suspended Solids | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | Volatile Suspended Solids | 2 | 1 | | | 1 | 3 | 1 |
| 9 | Aluminum | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | Cadmium | | 3 | 2 | 1 | 1 | | 3 |
| 9 | Chromium | | 1 | | 1 | 1 | 3 | |
| 9 | Cobalt | | | | | 1 | | |
| 9 | Copper | | 2 | 3 | 3 | 1 | 1 | 1 |
| 9 | Lead | 1 | 1 | 1 | | 3 | 3 | 1 |
| 9 | Molybdenum | 2 | 3 | | | 1 | | 2 |
| 9 | Nickel | | | 3 | | 1 | | 3 |
| 9 | Thallium | | 2 | | | | | |
| 9 | Vanadium | | | 1 | | 1 | | |
| 9 | Zinc | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | Antimony | | | | | 2 | | |
| 10 | Arsenic | 2 | | | | 2 | | |
| 10 | Selenium | 2 | 2 | | 1 | | | |
| 11 | Chromium (hexavalent) | | 2 | | | 1 | 2 | |
| 12 | Mercury | | | | 1 | | | |
| 14 | Phenolic (4AAP) | 1 | 1 | 1 | 1 | | | |
| 15 | Sulphide | 2 | 2 | 2 | 2 | | | |
| 16 | Bromoform | | | | 1 | | | |

NOTE:
1 = Data are of reliable quality
2 = Data are of equivocal quality
3 = Data are of unreliable quality

# Table 1
## Potential Candidate Parameters for Limits

| ATG | Parameter | Plant | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Algoma | Dofasco | Hilton | L. Erie | Atlas | IVACO | LASCO |
| 16 | Chloroform | 2 | | 2 | 3 | | 1 | |
| 16 | Dibromochloromethane | | | | 1 | | | |
| 16 | Methylene Chloride | | | | | | 3 | |
| 16 | Tetrachloroethylene | | | | | | 2 | |
| 16 | Trichloroethylene | | | | | | 2 | |
| 17 | Benzene | 1 | 1 | 1 | | | | |
| 17 | Styrene | | 1 | | | | | |
| 17 | Toluene | 1 | | 1 | | | 2 | |
| 17 | m-Xylene and p-Xylene | 1 | 1 | 2 | | | | |
| 17 | o-Xylene | 1 | 2 | | | | | |
| 19 | 1-Chloronaphthalene | | 2 | | | | | |
| 19 | 1-Methylnaphthalene | | 1 | | | | | |
| 19 | 2,4-Dinitrotoluene | | 1 | | | | | |
| 19 | 2,6-Dinitrotoluene | | 1 | | | | | |
| 19 | 2-Chloronaphthalene | | 2 | | | | | |
| 19 | 2-Methylnaphthalene | | 1 | | | | | |
| 19 | 4-Bromophenyl Phenyl Ether | | 1 | | | | | |
| 19 | 4-Chlorophenyl Phenyl Ether | | 1 | | | | | |
| 19 | 5-Nitro Acenaphthene | | 2 | | | | | |
| 19 | Acenaphthene | | 2 | | | | | |
| 19 | Acenaphthylene | 1 | 1 | | | | | |
| 19 | Anthracene | 1 | 2 | | | | | |
| 19 | Benzo(a)anthracene | 1 | 3 | | | | | |
| 19 | Benzo(a)pyrene | 1 | 1 | 3 | | | | |
| 19 | Benzo(b)fluoranthene | 1 | 1 | | | | | |
| 19 | Benzo(g,h,i)perylene | 1 | 2 | | | | | |
| 19 | Benzo(k)fluoranthene | 1 | 3 | | | | | |
| 19 | Benzobutylphthalate | | 1 | | | | | |

NOTE:
1 = Data are of reliable quality
2 = Data are of equivocal quality
3 = Data are of unreliable quality

# Table 1
## Potential Candidate Parameters for Limits

| ATG | Parameter | Plant | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Algoma | Dofasco | Hilton | L. Erie | Atlas | IVACO | LASCO |
| 19 | Bis(2-chloroethoxy)methane | | 2 | | | | | |
| 19 | Bis(2-chloroethyl)ether | | 2 | | | | | |
| 19 | Bis(2-chloroisopropyl)ether | | 1 | | | | | |
| 19 | Bis(2-ethylhexyl)phthalate | 3 | 3 | | | | | |
| 19 | Camphene | | 3 | | | | | |
| 19 | Chrysene | 1 | 3 | 2 | | | | |
| 19 | Di-n-butyl Phthalate | | 3 | | | | | |
| 19 | Di-n-octyl Phthalate | | 3 | | | | | |
| 19 | Dibenz(a,h)anthracene | | 2 | | | | | |
| 19 | Diphenylamine | | 3 | | | | | |
| 19 | Fluoranthene | 1 | 3 | 1 | | | | |
| 19 | Fluorene | 1 | 1 | | | | | |
| 19 | Indeno(1,2,3-cd)pyrene | 1 | 2 | | | | | |
| 19 | Indole | | 1 | | | | | |
| 19 | N-Nitrosodi-n-propylamine | | 2 | | | | | |
| 19 | N-Nitrosodiphenylamine | | 3 | | | | | |
| 19 | Naphthalene | 2 | 1 | | | | | |
| 19 | Perylene | 1 | 2 | | | | | |
| 19 | Phenanthrene | 1 | 3 | 1 | | | 3 | |
| 19 | Pyrene | 1 | 3 | 1 | | | | |
| 23 | Hexachlorobenzene | 3 | | | | | | |
| 23 | Hexachloroethane | | 2 | | | | | |
| 25 | Oil and Grease | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| 26 | Dehydroabietic Acid | 2 | | | | | | |
| IS1 | Iron | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

NOTE:
1 = Data are of reliable quality
2 = Data are of equivocal quality
3 = Data are of unreliable quality

# Table 2
## Results of QA/QC Assessment
## Integrated Steel Mills

| Candidate Parameters to be Limited | | | |
|---|---|---|---|
| **ATG** | **Parameter** | **ATG** | **Parameter** |
| 2 | Cyanide Total | 19 | 2,6-Dinitrotoluene |
| 4a | Ammonia plus Ammonium | 19 | 2-Methylnaphthalene |
| 5a | DOC | 19 | 4-Bromophenyl Phenyl Ether |
| 6 | Total Phosphorus | 19 | 4-Chlorophenyl Phenyl Ether |
| 8 | Total Suspended Solids | 19 | Acenaphthylene |
| 8 | Volatile Suspended Solids | 19 | Anthracene |
| 9 | Aluminum | 19 | Benzo(a)anthracene |
| 9 | Cadmium | 19 | Benzo(a)pyrene |
| 9 | Chromium | 19 | Benzo(b)fluoranthene |
| 9 | Lead | 19 | Benzo(g,h,i)perylene |
| 9 | Vanadium | 19 | Benzo(k)fluoranthene |
| 9 | Zinc | 19 | Benzobutylphthalate |
| 10 | Selenium | 19 | Bis(2-chloroisopropyl)ether |
| 12 | Mercury | 19 | Chrysene |
| 14 | Phenolics (4AAP) | 19 | Fluorene |
| 16 | Bromoform | 19 | Fluoranthene |
| 16 | Dibromochloromethane | 19 | Indeno(1,2,3-cd)pyrene |
| 17 | Benzene | 19 | Indole |
| 17 | Styrene | 19 | Naphthalene |
| 17 | Toluene | 19 | Perylene |
| 17 | m-Xylene and p-Xylene | 19 | Phenanthrene |
| 17 | o-Xylene | 19 | Pyrene |
| 19 | 1-Methylnaphthalene | 25 | Oil and Grease |
| 19 | 2,4-Dinitrotoluene | IS1 | Iron |

# Table 2
## Results of QA/QC Assessment
## Integrated Steel Mills

| Parameters with Data of Equivocal Quality | | Parameters to be Removed from List | |
|---|---|---|---|
| **ATG** | **Parameter** | **ATG** | **Parameter** |
| 4a | Total Kjeldahl Nitrogen | 9 | Nickel |
| 4b | Nitrate plus Nitrite | 19 | Bis(2-ethylhexyl)phthalate |
| 5b | TOC | 19 | Di-n-butyl Phthalate |
| 9 | Copper | 19 | Di-n-octyl Phthalate |
| 9 | Molybdenum | 19 | Diphenylamine |
| 9 | Thallium | 19 | N-Nitrosodiphenylamine |
| 10 | Arsenic | 23 | Hexachlorobenzene |
| 11 | Chromium (hexavalent) | | |
| 15 | Sulphide | | |
| 16 | Chloroform | | |
| 19 | 1-Chloronaphthalene | | |
| 19 | 2-Chloronaphthalene | | |
| 19 | 5-Nitro, Acenaphtene | | |
| 19 | Acenaphtene | | |
| 19 | Bis(2-chloroethoxy)methane | | |
| 19 | Bis(2-chloroethyl)ether | | |
| 19 | Dibenz(a,h)anthracene | | |
| 19 | N-Nitrosodi-n-propylamine | | |
| 23 | Hexachloroethane | | |
| 26 | Dehydroabietic Acid | | |

# Table 3
## Results of QA/QC Assessment
## Mini Steel Mills

| Parameters to be Limited | | Parameters with Data of Equivocal Quality | | Parameters to be Removed from List | |
|---|---|---|---|---|---|
| ATG | Parameter | ATG | Parameter | ATG | Parameter |
| 5a | DOC | 4a | Total Kjeldahl Nitrogen | 4a | Ammonia plus Ammonium |
| 6 | Total Phosphorus | 4b | Nitrate plus Nitrite | 9 | Cadmium |
| 8 | Total Suspended Solids | 5b | TOC | 9 | Chromium |
| 8 | Volatile Suspended Solids | 9 | Molybdenum | 9 | Nickel |
| 9 | Aluminum | 11 | Chromium (hexavalent) | 16 | Methylene Chloride |
| 9 | Copper | 16 | Tetrachloroethylene | 19 | Phenanthrene |
| 9 | Lead | 16 | Trichloroethylene | | |
| 9 | Zinc | 17 | Toluene | | |
| 16 | Chloroform | | | | |
| 25 | Oil and Grease | | | | |
| IS1 | Iron | | | | |

# Table 4
## Results of QA/QC Assessment
## Specialty Steel Mills

| Parameters to be Limited | | Parameters with Data of Equivocal Quality | | Parameters to be Removed from List | |
|---|---|---|---|---|---|
| ATG | Parameter | ATG | Parameter | ATG | Parameter |
| 5a | DOC | 4b | Nitrate plus Nitrite | 9 | Lead |
| 8 | Total Suspended Solids | 9 | Antimony | | |
| 8 | Volatile Suspended Solids | 9 | Arsenic | | |
| 9 | Aluminum | | | | |
| 9 | Cadmium | | | | |
| 9 | Chromium | | | | |
| 9 | Cobalt | | | | |
| 9 | Copper | | | | |
| 9 | Molybdenum | | | | |
| 9 | Nickel | | | | |
| 9 | Vanadium | | | | |
| 9 | Zinc | | | | |
| 11 | Chromium (hexavalent) | | | | |
| 25 | Oil and Grease | | | | |
| IS1 | Iron | | | | |

# APPENDIX I

## Sector List of Parameters Monitored Regulation Method Detection Limits and Provincial Water Quality Objectives/Guidelines

APPENDIX I
TABLE I–1

## SECTOR LIST OF PARAMETERS MONITORED

| ATG | PARAMETER | RMDL | PWQO | UNIT | STATUS OF PWQO |
|---|---|---|---|---|---|
| 1 | Chemical Oxygen Demand | 10.000 | | mg/L | |
| 2 | Cyanide Total | 0.005 | | mg/L | |
| 3 | Hydrogen Ion (pH) | | | | |
| 4a | Ammonia plus Ammonium | 0.250 | | mg/L | |
| 4a | Total Kjeldahl Nitrogen | 0.500 | | mg/L | |
| 4b | Nitrate+Nitrite | 0.250 | | mg/L | |
| 5a | DOC | 0.500 | | mg/L | |
| 5b | TOC | 5.000 | | mg/L | |
| 6 | Total Phosphorus | 0.100 | | mg/L | |
| 7 | Specific Conductance | 5.000 | | uS/cm | |
| 8 | Total Suspended Solids | 5.000 | | mg/L | |
| 8 | Volatile Suspended Solids | 10.000 | | mg/L | |
| 9 | Aluminum | 0.030 | (a) | mg/L | PWQG |
| 9 | Beryllium | 0.010 | (a) | mg/L | PWQO |
| 9 | Cadmium | 0.002 | 0.0002 | mg/L | PWQO |
| 9 | Chromium | 0.020 | 0.1000 | mg/L | PWQO |
| 9 | Cobalt | 0.020 | 0.0004 | mg/L | PROPOSED PWQG |
| 9 | Copper | 0.010 | 0.0050 | mg/L | PWQO |
| 9 | Lead | 0.030 | (a) | mg/L | PROPOSED PWQO |
| 9 | Molybdenum | 0.020 | | mg/L | |
| 9 | Nickel | 0.020 | 0.0250 | mg/L | PWQO |
| 9 | Silver | 0.030 | 0.0001 | mg/L | PWQO |
| 9 | Thallium | 0.030 | 0.0002 | mg/L | PROPOSED PWQG |
| 9 | Vanadium | 0.030 | 0.0070 | mg/L | PROPOSED PWQG |
| 9 | Zinc | 0.010 | 0.0160 | mg/L | PWQO |
| 10 | Antimony | 0.005 | 0.0070 | mg/L | PROPOSED PWQG |
| 10 | Arsenic | 0.005 | 0.1000 | mg/L | PWQO |
| 10 | Selenium | 0.005 | 0.1000 | mg/L | PWQO |
| 11 | Chromium (hexavalent) | 0.010 | | mg/L | |
| 12 | Mercury | 0.100 | 0.2000 | ug/L | PWQO |
| 14 | Phenolics (4AAP) | 2.000 | 1.0000 | ug/L | PWQO |
| 15 | Sulphide | 0.020 | | mg/L | |
| 16 | 1,1,2,2–Tetrachloroethane | 4.300 | 50.0000 | ug/L | PROPOSED PWQG |
| 16 | 1,1,2–Trichloroethane | 0.600 | 800.0000 | ug/L | PROPOSED PWQG |
| 16 | 1,1–Dichloroethane | 0.800 | 200.0000 | ug/L | PROPOSED PWQG |
| 16 | 1,1–Dichloroethylene | 2.800 | 40.0000 | ug/L | PROPOSED PWQG |
| 16 | 1,2–Dichlorobenzene | 1.400 | 2.5000 | ug/L | PWQO |
| 16 | 1,2–Dichloroethane | 0.800 | 90.0000 | ug/L | PROPOSED PWQG |
| 16 | 1,2–Dichloropropane | 0.900 | | ug/L | |

NOTE: A legend and additional tables are given at the end of this list.

APPENDIX I
TABLE I–1

## SECTOR LIST OF PARAMETERS MONITORED

| ATG | PARAMETER | RMDL | PWQO | UNIT | STATUS OF PWQO |
|---|---|---|---|---|---|
| 16 | 1,3–Dichlorobenzene | 1.100 | 2.5000 | ug/L | PWQO |
| 16 | 1,4–Dichlorobenzene | 1.700 | 4.0000 | ug/L | PWQO |
| 16 | Bromoform | 3.700 | | ug/L | |
| 16 | Bromomethane | 3.700 | | ug/L | |
| 16 | Carbon Tetrachloride | 1.300 | | ug/L | |
| 16 | Chlorobenzene | 0.700 | 15.0000 | ug/L | PWQO |
| 16 | Chloroform | 0.700 | | ug/L | |
| 16 | Chloromethane | 3.700 | | ug/L | |
| 16 | Cis–1,3–Dichloropropylene | 1.400 | | ug/L | |
| 16 | Dibromochloromethane | 1.100 | | ug/L | |
| 16 | Ethylene Dibromide | 1.000 | | ug/L | |
| 16 | Methylene Chloride | 1.300 | | ug/L | |
| 16 | Tetrachloroethylene | 1.100 | 50.0000 | ug/L | PROPOSED PWQG |
| 16 | Trans–1,2–Dichloroethylene | 1.400 | 200.0000 | ug/L | PROPOSED PWQG |
| 16 | Trans–1,3–Dichloropropylene | 1.400 | | ug/L | |
| 16 | Trichloroethylene | 1.900 | 2.0000 | ug/L | PROPOSED PWQG |
| 16 | Trichlorofluoromethane | 1.000 | | ug/L | |
| 16 | Vinyl Chloride | 4.000 | | ug/L | |
| 17 | Benzene | 0.500 | 100.0000 | ug/L | PROPOSED PWQG |
| 17 | Ethylbenzene | 0.600 | 20.0000 | ug/L | PROPOSED PWQG |
| 17 | Styrene | 0.500 | 20.0000 | ug/L | PROPOSED PWQG |
| 17 | Toluene | 0.500 | 0.8000 | ug/L | PROPOSED PWQG |
| 17 | m–Xylene and p–Xylene | 1.100 | | ug/L | |
| 17 | o–Xylene | 0.500 | 0.7000 | ug/L | PROPOSED PWQG |
| 19 | 1–Chloronaphthalene | 2.500 | | ug/L | |
| 19 | 1–Methylnaphthalene | 3.200 | 2.0000 | ug/L | PROPOSED PWQG |
| 19 | 2,4–Dinitrotoluene | 0.800 | 5.0000 | ug/L | PROPOSED PWQG |
| 19 | 2,6–Dinitrotoluene | 0.700 | 50.0000 | ug/L | PROPOSED PWQG |
| 19 | 2–Chloronaphthalene | 1.800 | | ug/L | |
| 19 | 2–Methylnaphthalene | 2.200 | 2.0000 | ug/L | PROPOSED PWQG |
| 19 | 4–Bromophenyl Phenyl Ether | 0.300 | | ug/L | |
| 19 | 4–Chlorophenyl Phenyl Ether | 0.900 | | ug/L | |
| 19 | 5–Nitro, Acenaphthene | 4.300 | | ug/L | |
| 19 | Acenaphthene | 1.300 | | ug/L | |
| 19 | Acenaphthylene | 1.400 | | ug/L | |
| 19 | Anthracene | 1.200 | | ug/L | |
| 19 | Benzo(a)anthracene | 0.500 | | ug/L | |
| 19 | Benzo(a)pyrene | 0.600 | | ug/L | |
| 19 | Benzo(b)fluoranthene | 0.700 | | ug/L | |

NOTE: A legend and additional tables are given at the end of this list.

APPENDIX I
TABLE I–1

## SECTOR LIST OF PARAMETERS MONITORED

| ATG | PARAMETER | RMDL | PWQO | UNIT | STATUS OF PWQO |
|---|---|---|---|---|---|
| 19 | Benzo(g,h,i)perylene | 0.700 | | ug/L | |
| 19 | Benzo(k)fluoranthene | 0.700 | | ug/L | |
| 19 | Benzobutylphthalate | 0.600 | | ug/L | |
| 19 | Bis(2–chloroethoxyl)methane | 3.500 | | ug/L | |
| 19 | Bis(2–chloroethyl)ether | 4.400 | | ug/L | |
| 19 | Bis(2–chloroisopropyl)ether | 2.200 | | ug/L | |
| 19 | Bis(2–ethylhexyl)phthalate | 2.200 | (f) | ug/L | PWQO (f) |
| 19 | Camphene | 3.500 | | ug/L | |
| 19 | Chrysene | 0.300 | | ug/L | |
| 19 | Di–n–butyl Phthalate | 3.800 | (g) | ug/L | PWQO (g) |
| 19 | Di–n–octyl Phthalate | 2.000 | (h) | ug/L | PWQO (h) |
| 19 | Dibenz(a,h)anthracene | 1.300 | | ug/L | |
| 19 | Diphenyl Ether | 0.400 | | ug/L | |
| 19 | Diphenylamine | 14.000 | | ug/L | |
| 19 | Fluoranthene | 0.400 | | ug/L | |
| 19 | Fluorene | 1.700 | | ug/L | |
| 19 | Indeno(1,2,3–cd)pyrene | 1.300 | | ug/L | |
| 19 | Indole | 1.900 | | ug/L | |
| 19 | N–Nitrosodi–n–propylamine | 3.100 | | ug/L | |
| 19 | N–Nitrosodiphenylamine | 14.000 | | ug/L | |
| 19 | Naphthalene | 1.600 | | ug/L | |
| 19 | Perylene | 1.500 | | ug/L | |
| 19 | Phenanthrene | 0.400 | | ug/L | |
| 19 | Pyrene | 0.400 | | ug/L | |
| 20 | 2,3,4,5–Tetrachlorophenol | 0.400 | 1.0000 | ug/L | PWQO |
| 20 | 2,3,4,6–Tetrachlorophenol | 2.800 | 1.0000 | ug/L | PWQO |
| 20 | 2,3,4–Trichlorophenol | 0.600 | 18.0000 | ug/L | PWQO |
| 20 | 2,3,5,6–Tetrachlorophenol | 1.600 | 1.0000 | ug/L | PWQO |
| 20 | 2,3,5–Trichlorophenol | 1.300 | 18.0000 | ug/L | PWQO |
| 20 | 2,4,5–Trichlorophenol | 1.300 | 18.0000 | ug/L | PWQO |
| 20 | 2,4,6–Trichlorophenol | 1.300 | 18.0000 | ug/L | PWQO |
| 20 | 2,4–Dichlorophenol | 1.700 | 0.2000 | ug/L | PWQO |
| 20 | 2,4–Dimethylphenol | 7.300 | 10.5000 | ug/L | PROPOSED PWQG |
| 20 | 2,4–Dinitrophenol | 42.000 | | ug/L | |
| 20 | 2,6–Dichlorophenol | 2.000 | 0.2000 | ug/L | PWQO |
| 20 | 2–Chlorophenol | 3.700 | | ug/L | |
| 20 | 4,6–Dinitro–o–cresol | 24.000 | | ug/L | |
| 20 | 4–Chloro–3–methylphenol | 1.500 | | ug/L | |
| 20 | 4–Nitrophenol | 1.400 | 48.0000 | ug/L | PROPOSED PWQG |

NOTE: A legend and additional tables are given at the end of this list.

APPENDIX I
TABLE I–1

## SECTOR LIST OF PARAMETERS MONITORED

| ATG | PARAMETER | RMDL | PWQO | UNIT | STATUS OF PWQO |
|---|---|---|---|---|---|
| 20 | Pentachlorophenol | 1.300 | 0.5000 | ug/L | PWQO |
| 20 | Phenol | 2.400 | | ug/L | |
| 20 | m–Cresol | 3.400 | 1.0000 | ug/L | PROPOSED PWQG |
| 20 | o–Cresol | 3.700 | 1.0000 | ug/L | PROPOSED PWQG |
| 20 | p–Cresol | 3.500 | 1.0000 | ug/L | PROPOSED PWQG |
| 23 | 1,2,3,4–Tetrachlorobenzene | 0.010 | 0.1000 | ug/L | PWQO |
| 23 | 1,2,3,5–Tetrachlorobenzene | 0.010 | 0.1000 | ug/L | PWQO |
| 23 | 1,2,3–Trichlorobenzene | 0.010 | 0.9000 | ug/L | PWQO |
| 23 | 1,2,4,5–Tetrachlorobenzene | 0.010 | 0.1500 | ug/L | PWQO |
| 23 | 1,2,4–Trichlorobenzene | 0.010 | 0.5000 | ug/L | PWQO |
| 23 | 2,4,5–Trichlorotoluene | 0.010 | | ug/L | |
| 23 | Hexachlorobenzene | 0.010 | 0.0065 | ug/L | PWQO |
| 23 | Hexachlorobutadiene | 0.010 | 0.0200 | ug/L | PROPOSED PWQG |
| 23 | Hexachlorocyclopentadiene | 0.010 | | ug/L | |
| 23 | Hexachloroethane | 0.010 | | ug/L | |
| 23 | Octachlorostyrene | 0.010 | | ug/L | |
| 23 | Pentachlorobenzene | 0.010 | 0.0300 | ug/L | PWQO |
| 24 | 2,3,7,8 TCDD | 0.020 | 0.0001 | ng/L | PROPOSED PWQG |
| 24 | Octachlorodibenzo–p–dioxin | 0.030 | | ng/L | |
| 24 | Octachlorodibenzofuran | 0.030 | | ng/L | |
| 24 | Total H6CDD | 0.030 | | ng/L | |
| 24 | Total H6CDF | 0.020 | | ng/L | |
| 24 | Total H7CDD | 0.030 | | ng/L | |
| 24 | Total H7CDF | 0.030 | | ng/L | |
| 24 | Total PCDD | 0.020 | | ng/L | |
| 24 | Total PCDF | 0.015 | | ng/L | |
| 24 | Total TCDD | 0.020 | | ng/L | |
| 24 | Total TCDF | 0.015 | | ng/L | |
| 25 | Oil and Grease | 1.000 | | mg/L | |
| 26 | Abietic Acid | 5.000 | (a) , (j) | ug/L | PROPOSED PWQG (j) |
| 26 | Chlorodehydroabietic Acid | 5.000 | | ug/L | |
| 26 | Dehydroabietic Acid | 5.000 | | ug/L | |
| 26 | Isopimaric Acid | 5.000 | | ug/L | |
| 26 | Levopimaric Acid | 5.000 | | ug/L | |
| 26 | Neoabietic Acid | 5.000 | | ug/L | |
| 26 | Oleic Acid | 5.000 | | ug/L | |
| 26 | Pimaric Acid | 5.000 | | ug/L | |
| 27 | PCBT | 0.100 | | ug/L | |
| IS1 | Iron | 0.020 | 0.3000 | mg/L | |

NOTE: A legend and additional tables are given at the end of this list.

APPENDIX I
TABLE I–1

## SECTOR LIST OF PARAMETERS MONITORED
## LEGEND

RMDL = REGULATION METHOD DETECTION LIMIT
PWQO = PROVINCIAL WATER QUALITY OBJECTIVE
PWQG = PROVINCIAL WATER QUALITY GUIDELINE

(a) = PWGO/G is either a narrative, or dependent on pH, alkalinity or hardness; see Blue Book Table 1 and addenda, and table below.
(b) = proposed PWQG's are under development for 2,3,7,8–T4CDD and 2,3,7,8–T4CDF only
(c) = proposed PWQG's are available for some isomers of dimethylphenol
(d) = PWQO is for MONOCHLOROPHENOL (7 ug/L)
(f) = PWQO is for DIETHYLHEXYLPHTHALATE (0.6 ug/L)
(g) = PWQO is for DIBUTYLPHTHALATE (4.0 ug/L)
(h) = PWQO is for OTHER PHTHALATES (0.2 ug/L)
(j) = PWQO is available for total PCB's for total resin acids and for DHA, but not other individual isomers

Total resin acids and DHA are pH dependent as shown below:

| Receiving Water pH | DHA (ug/L) | Total Resin Acids (ug/L) |
|---|---|---|
| 5.0 | 1.0 | 1.0 |
| 5.5 | 1.9 | 2.7 |
| 6.0 | 2.5 | 4.2 |
| 6.5 | 4.2 | 9.3 |
| 7.0 | 8.0 | 25.0 |
| 7.5 | 11.8 | 45.4 |
| 8.0 | 12.9 | 52.4 |
| 8.5 | 14.0 | 59.8 |
| 9.0 | 14.3 | 61.5 |

PROPOSED METAL PWQO/G

| Substance | Hardness (mg/L) | Proposed PWQO/G (ug/L) |
|---|---|---|
| Cadmium | 0 – 100 | 0.15 |
| Cadmium | >100 | 0.45 |
| Copper | 0 – 20 | 1 |
| Copper | >20 | 5 |
| Lead | 0 – 30 | 1 |
| Lead | 30 – 80 | 3 |
| Lead | >80 | 5 |

APPENDIX I
TABLE I–2

## SECTOR LIST OF EFFLUENT STREAMS

### INTEGRATED STEEL MILLS

| COMPNAME | POINT | STREAM CLASSIFICATION | STREAM NAME | QA/QC |
|---|---|---|---|---|
| ALGOMA STEEL | 0100 | FINAL DISCHARGE EFFLUENT | BAR & STRIP LAGOON OUTFALL | |
| | 0200 | COOLING WATER | 60 INCH SEWER | |
| | 0300 | COOLING WATER | 30 INCH SEWER OUTFALL | YES |
| | 0400 | FINAL DISCHARGE EFFLUENT | #1 TUBE MILL | |
| | 0500 | COOLING WATER | COLD MILL 24 INCH | |
| | 0600 | STORM WATER | COLD MILL STORM SEWER OUTFALL | |
| | 0700 | FINAL DISCHARGE EFFLUENT | TERMINAL SETTLING BASINS | YES |
| | 0800 | COOLING WATER | BOILER HOUSE | |
| | 0900 | INTAKE WATER | INTAKE WATER | |
| | 1000 | COOLING WATER | #2 STEELMAKING COOLING WATER | |
| | 1200 | PROCESS EFFLUENT | #1 THICHENER | |
| | 1300 | PROCESS EFFLUENT | #2 THICHENER | |
| | 1400 | PROCESS EFFLUENT | BY–PRODUCTS AREA | YES |
| | 1500 | COOLING WATER | COLD MILL 20 INCH | |
| | 1600 | COOLING WATER | COKE OVEN CONDENSER | |
| | 1800 | FINAL DISCHARGE EFFLUENT | #2 TUBE MILL | |
| | 1900 | EMERGENCY OVERFLOW | EMERGENCY THICHENER | |
| | 2000 | EMERGENCY OVERFLOW | 24 INCH COKE QUENCH EMERGENCY OVERFLOW | |
| DOFASCO INC. | 0100 | FINAL DISCHARGE EFFLUENT | EAST BOAT SLIP SEWER | |
| | 0200 | FINAL DISCHARGE EFFLUENT | OTTAWA STREET SEWER | |
| | 0300 | COOLING WATER | BOILER HOUSE SEWER #1 | YES |
| | 0400 | FINAL DISCHARGE EFFLUENT | WEST BAY FRONT SEWER | YES |
| | 0500 | INTAKE WATER | BAY WATER INTAKE | |
| | 0700 | PROCESS EFFLUENT | COKE PLANT BIOLOGICAL PLANT DISCHARGE | YES |
| | 0800 | PROCESS EFFLUENT | BLAST FURNACE RECYCLE BLOWDOWN | |

APPENDIX I
TABLE I–2

## SECTOR LIST OF EFFLUENT STREAMS

### INTEGRATED STEEL MILLS

| COMPNAME | POINT | STREAM CLASSIFICATION | STREAM NAME | QA/QC |
|---|---|---|---|---|
| DOFASCO INC. | 0900 | PROCESS EFFLUENT | STEELMAKING CLARIFIER DISCHARGE | |
| | 1000 | PROCESS EFFLUENT | COLD MILL TREATMENT PLANT SEWER | |
| | 1100 | PROCESS EFFLUENT | #1 HOT MILL FILTRATION PLANT DISCHARGE | |
| | 1200 | COOLING WATER | BOILER HOUSE SEWER #2 | |
| | 1300 | STORAGE SITE | SOUTH EAST COAL FIELDS STORM SEWER | |
| | 1400 | STORM WATER | KENILWORTH PLANT STORM SEWER | |
| STELCO HILTON WORKS | 0100 | FINAL DISCHARGE EFFLUENT | WEST SIDE OPEN CUT | YES |
| | 0200 | FINAL DISCHARGE EFFLUENT | NORTHWEST OUTFALL | |
| | 0400 | FINAL DISCHARGE EFFLUENT | NORTH OUTFALL | |
| | 0601 | FINAL DISCHARGE EFFLUENT | EAST SIDE FILTER PLANT | YES |
| | 0602 | COOLING WATER | #1 60 INCH SEWER | |
| | 1100 | FINAL DISCHARGE EFFLUENT | #2 ROD MILL | |
| | 1200 | FINAL DISCHARGE EFFLUENT | 20 INCH MILL | |
| | 1300 | COOLING WATER | #2 60 INCH SEWER | |
| | 1400 | EMERGENCY OVERFLOW | EAST SIDE FILTER PLANT OVERFLOW WEIR | |
| | 1600 | INTAKE WATER | INTAKE WATER | |
| | 1700 | PROCESS EFFLUENT | CELL #1 | |
| | 1800 | PROCESS EFFLUENT | CELL #2 | |
| | 1900 | FINAL DISCHARGE EFFLUENT | ES STAGE 1 | |
| | 2000 | FINAL DISCHARGE EFFLUENT | ES STAGE 2 | |
| STELCO LAKE ERIE WORKS | 0100 | FINAL DISCHARGE EFFLUENT | #4 POND DISCHARGE | YES |
| | 0300 | WASTE DISPOSAL SITE EFFLUENT | LAGOON E | |
| | 0400 | PROCESS EFFLUENT | BLOWDOWN TREATMENT PLANT | YES |
| | 0500 | STORM WATER | STORM WATER POND #2 | |
| | 0600 | WASTE DISPOSAL SITE EFFLUENT | COAL STORAGE AREA | |

APPENDIX I
TABLE I–2

## SECTOR LIST OF EFFLUENT STREAMS

### MINI AND SPECIALTY STEEL MILLS

| COMPNAME | POINT | STREAM CLASSIFICATION | STREAM NAME | QA/QC |
|---|---|---|---|---|
| ATLAS SPECIALTY STEEL | 0100 | FINAL DISCHARGE EFFLUENT | 42 INCH SEWER | YES |
| | 0200 | PROCESS EFFLUENT | WASTE ACID SOLIDIFICATION PLANT | |
| | 0300 | PROCESS EFFLUENT | NORTH PLANT TREATMENT | |
| | 0400 | COOLING WATER | CEVAM | |
| | 0500 | WASTE DISPOSAL SITE EFFLUENT | WASTE DISPOSAL SITE | |
| | 0600 | EMERGENCY OVERFLOW | S WTP EMERGENCY OVERFLOW | |
| | 0700 | EMERGENCY OVERFLOW | NORTH PLANT WATER RECLAIM AT 42 INCH SEWER | |
| | 0800 | STORM WATER | #3 BUILDING | |
| | 0900 | EMERGENCY OVERFLOW | SCALE PIT | |
| | 1100 | INTAKE WATER | INTAKE WATER | |
| | 1200 | EMERGENCY OVERFLOW | COMPRESSORS RECLAIM | |
| IVACO ROLLING MILLS | 0100 | FINAL DISCHARGE EFFLUENT | EAST DISCHARGE (WHEN FINAL EFFLUENT) | |
| | 0200 | COOLING WATER | EAST DISCHARGE (WHEN COOLING WATER) | YES |
| | 0300 | STORM WATER | NORTHEAST DISCHARGE | |
| | 0400 | STORM WATER | SOUTHEAST DISCHARGE | |
| | 0500 | PROCESS EFFLUENT | MILL POND OUTLET | |
| | 0700 | INTAKE WATER | INTAKE WATER | |
| | 0800 | STORM WATER | ROD MILL ROOF DRAIN | |
| LASCO | 0100 | FINAL DISCHARGE EFFLUENT | SOUTH POND | YES |
| | 0200 | STORM WATER | STORM WATER DISCHARGE POINT | |
| | 0300 | WASTE DISPOSAL SITE EFFLUENT | WASTE DISPOSAL SITE | |
| | 0500 | INTAKE WATER | INTAKE WATER | |
| | 0600 | STORM WATER | EAST–STORM WATER DISCHARGE POINT | |
| | 0700 | COOLING WATER | SETTLING BASIN COOLING WATER INFLUENT | |

# APPENDIX II

## Potential Candidate Parameters for the Sector and at Each Effluent Stream

APPENDIX II
TABLE II–1

# POTENTIAL CANDIDATE PARAMETERS

IRON AND STEEL SECTOR

| ATG | PARAMETER | PLANT | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | ALGOMA | DOFASCO | HILTON | L. ERIE | ATLAS | IVACO | LASCO |
| 2 | Cyanide Total | X | X | X | X | | | |
| 4a | Ammonia plus Ammonium | X | X | X | X | | X | X |
| 4a | Total Kjeldahl Nitrogen | | X | X | X | | X | |
| 4b | Nitrate+Nitrite | X | X | X | X | X | X | X |
| 5a | DOC | X | X | X | X | X | X | X |
| 5b | TOC | X | | X | | | X | |
| 6 | Total Phosphorus | X | X | X | X | | X | X |
| 7 | Specific Conductance | X | X | X | X | X | X | X |
| 8 | Total Suspended Solids | X | X | X | X | X | X | X |
| 8 | Volatile Suspended Solids | X | X | | | X | X | X |
| 9 | Aluminum | X | X | X | X | X | X | X |
| 9 | Cadmium | | X | X | X | X | | X |
| 9 | Chromium | | X | | X | X | X | |
| 9 | Cobalt | | | | | X | | |
| 9 | Copper | | X | X | X | X | X | X |
| 9 | Lead | X | X | X | | X | X | X |
| 9 | Molybdenum | X | X | | | X | | X |
| 9 | Nickel | | | X | | X | | X |
| 9 | Thallium | | X | | | | | |
| 9 | Vanadium | | | X | | X | | |
| 9 | Zinc | X | X | X | X | X | X | X |
| 10 | Antimony | | | | | X | | |
| 10 | Arsenic | X | | | | X | | |
| 10 | Selenium | X | X | | X | | | |
| 11 | Chromium (hexavalent) | | X | | | X | X | |
| 12 | Mercury | | | | X | | | |
| 14 | Phenolics (4AAP) | X | X | X | X | | | |
| 15 | Sulphide | X | X | X | X | | | |
| 16 | Bromoform | | | | X | | | |
| 16 | Chloroform | X | | X | X | | X | |
| 16 | Dibromochloromethane | | | | X | | | |
| 16 | Methylene Chloride | | | | | | X | |
| 16 | Tetrachloroethylene | | | | | | X | |
| 16 | Trichloroethylene | | | | | | X | |
| 17 | Benzene | X | X | X | | | | |
| 17 | Styrene | | X | | | | | |
| 17 | Toluene | X | | X | | | X | |

NOTE: X indicates that a parameter is a potential candidate at the given plant.

APPENDIX II
TABLE II-1

# POTENTIAL CANDIDATE PARAMETERS

IRON AND STEEL SECTOR

| ATG | PARAMETER | PLANT | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | ALGOMA | DOFASCO | HILTON | L. ERIE | ATLAS | IVACO | LASCO |
| 17 | m-Xylene and p-Xylene | X | X | X | | | | |
| 17 | o-Xylene | X | X | | | | | |
| 19 | 1-Chloronaphthalene | | X | | | | | |
| 19 | 1-Methylnaphthalene | | X | | | | | |
| 19 | 2,4-Dinitrotoluene | | X | | | | | |
| 19 | 2,6-Dinitrotoluene | | X | | | | | |
| 19 | 2-Chloronaphthalene | | X | | | | | |
| 19 | 2-Methylnaphthalene | | X | | | | | |
| 19 | 4-Bromophenyl Phenyl Ether | | X | | | | | |
| 19 | 4-Chlorophenyl Phenyl Ether | | X | | | | | |
| 19 | 5-Nitro, Acenaphthene | | X | | | | | |
| 19 | Acenaphthene | | X | | | | | |
| 19 | Acenaphthylene | X | X | | | | | |
| 19 | Anthracene | X | X | | | | | |
| 19 | Benzo(a)anthracene | X | X | | | | | |
| 19 | Benzo(a)pyrene | X | X | X | | | | |
| 19 | Benzo(b)fluoranthene | X | X | | | | | |
| 19 | Benzo(g,h,i)perylene | X | X | | | | | |
| 19 | Benzo(k)fluoranthene | X | X | | | | | |
| 19 | Benzobutylphthalate | | X | | | | | |
| 19 | Bis(2-chloroethoxyl)methane | | X | | | | | |
| 19 | Bis(2-chloroethyl)ether | | X | | | | | |
| 19 | Bis(2-chloroisopropyl)ether | | X | | | | | |
| 19 | Bis(2-ethylhexyl)phthalate | X | X | | | | | |
| 19 | Camphene | | X | | | | | |
| 19 | Chrysene | X | X | X | | | | |
| 19 | Di-n-butyl Phthalate | | X | | | | | |
| 19 | Di-n-octyl Phthalate | | X | | | | | |
| 19 | Dibenz(a,h)anthracene | | X | | | | | |
| 19 | Diphenylamine | | X | | | | | |
| 19 | Fluoranthene | X | X | X | | | | |
| 19 | Fluorene | X | X | | | | | |
| 19 | Indeno(1,2,3-cd)pyrene | X | X | | | | | |
| 19 | Indole | | X | | | | | |
| 19 | N-Nitrosodi-n-propylamine | | X | | | | | |
| 19 | N-Nitrosodiphenylamine | | X | | | | | |

NOTE: X indicates that a parameter is a potential candidate at the given plant.

APPENDIX II
TABLE II–1

# POTENTIAL CANDIDATE PARAMETERS

IRON AND STEEL SECTOR

| ATG | PARAMETER | PLANT | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | ALGOMA | DOFASCO | HILTON | L. ERIE | ATLAS | IVACO | LASCO |
| 19 | Naphthalene | X | X | | | | | |
| 19 | Perylene | X | X | | | | | |
| 19 | Phenanthrene | X | X | X | | | X | |
| 19 | Pyrene | X | X | X | | | | |
| 23 | Hexachlorobenzene | X | | | | | | |
| 23 | Hexachloroethane | | X | | | | | |
| 25 | Oil and Grease | X | X | X | X | X | X | X |
| 26 | Dehydroabietic Acid | X | | | | | | |
| IS1 | Iron | X | X | X | X | X | X | X |

NOTE: X indicates that a parameter is a potential candidate at the given plant.

APPENDIX II
TABLE II–2

POTENTIAL CANDIDATE PARAMETERS AT EACH STREAM OF A PLANT

## ALGOMA STEEL

| ATG | PARAMETER | CONTROL POINT NUMBER | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 1000 | 1200 | 1300 | 1400 | 1500 | 1600 | 1800 | 2000 |
| 2 | Cyanide Total | X | | X | | | | X | | | X | X | X | | X | | X |
| 4a | Ammonia plus Ammonium | X | | X | | | X | X | | | X | X | X | X | X | | X |
| 4b | Nitrate+Nitrite | X | X | X | X | X | | X | X | X | | | | | X | | |
| 5a | DOC | X | X | X | X | X | | X | X | X | | | | X | X | X | |
| 5b | TOC | | | | | | | | | | | | | | | X | |
| 6 | Total Phosphorus | | | | | | | X | | | | | | | | X | |
| 7 | Specific Conductance | X | X | X | X | X | | X | X | X | | | | X | X | X | |
| 8 | Total Suspended Solids | X | X | X | X | | | X | | | X | X | X | | | X | X |
| 8 | Volatile Suspended Solids | | | | | | | | | | | | X | | | | |
| 9 | Aluminum | X | | | X | | | X | X | | | | | | | | |
| 9 | Lead | X | | | | | | | | | | X | | | | | |
| 9 | Molybdenum | | | | | | | | | | | | | | | X | |
| 9 | Zinc | X | X | X | X | X | X | X | X | | X | X | | X | X | X | X |
| 10 | Arsenic | X | | | | | | | | | | | | | | X | |
| 10 | Selenium | | | | | | | X | | | | | | | | | |
| 14 | Phenolics (4AAP) | X | X | X | X | X | X | X | | | X | X | X | X | X | X | X |
| 15 | Sulphide | | | | | | | X | | | | | | | | | |
| 16 | Chloroform | | | | | | | | | | | | | | | X | |
| 17 | Benzene | | | | | | | | | | | | X | | | | X |
| 17 | Toluene | | | | | | | | | | | | X | | | | |
| 17 | m–Xylene and p–Xylene | | | | | | | | | | | | X | | | | |
| 17 | o–Xylene | | | | | | | | | | | | X | | | | |
| 19 | Acenaphthylene | | | | | | | | | | | | X | | | | |
| 19 | Anthracene | | | | | | | | | | | | X | | | | |
| 19 | Benzo(a)anthracene | | | | | | | | | | | | X | | | | |

NOTE: X Indicates that a parameter is a potential candidate at that control point.

APPENDIX II
TABLE II–2

POTENTIAL CANDIDATE PARAMETERS AT EACH STREAM OF A PLANT

## ALGOMA STEEL

| ATG | PARAMETER | CONTROL POINT NUMBER | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 | 0700 | 0800 | 1000 | 1200 | 1300 | 1400 | 1500 | 1600 | 1800 | 2000 |
| 19 | Benzo(a)pyrene | | | | | | | | | | | | X | | | | X |
| 19 | Benzo(b)fluoranthene | | | | | | | | | | | | X | | | | |
| 19 | Benzo(g,h,i)perylene | | | | | | | | | | | | X | | | | |
| 19 | Benzo(k)fluoranthene | | | | | | | | | | | | X | | | | |
| 19 | Bis(2–ethylhexyl)phthalate | | | | | | | X | | | | | | | | | |
| 19 | Chrysene | | | | | | | | | | | | X | | | | |
| 19 | Fluoranthene | | | | | | | | | | | | X | | | | |
| 19 | Fluorene | | | | | | | | | | | | X | | | | |
| 19 | Indeno(1,2,3–cd)pyrene | | | | | | | | | | | | X | | | | |
| 19 | Naphthalene | | | | | | | | | | | | X | | | | X |
| 19 | Perylene | | | | | | | | | | | | X | | | | |
| 19 | Phenanthrene | | | | | | | | | | | | X | | | | |
| 19 | Pyrene | | | | | | | | | | | | X | | | | |
| 23 | Hexachlorobenzene | | | | | | | X | | | | | | | | | |
| 25 | Oil and Grease | X | X | | X | | | X | | | X | X | X | X | | X | X |
| 26 | Dehydroabietic Acid | | | | | | | | | | | | | | | X | |
| IS1 | Iron | X | X | X | X | X | X | X | X | X | | | | X | X | X | X |

NOTE: X indicates that a parameter is a potential candidate at that control point.

APPENDIX II
TABLE II–3

POTENTIAL CANDIDATE PARAMETERS AT EACH STREAM OF A PLANT

## DOFASCO STEEL

| ATG | PARAMETER | CONTROL POINT NUMBER | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0100 | 0200 | 0300 | 0400 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 |
| 2 | Cyanide Total | X | X | X | X | X | X | | | | X | X | X |
| 4a | Ammonia plus Ammonium | X | X | X | X | X | X | | | | X | X | X |
| 4a | Total Kjeldahl Nitrogen | X | X | X | X | | | | | | X | | |
| 4b | Nitrate+Nitrite | X | X | X | X | | | | | | X | | |
| 5a | DOC | X | X | X | X | | | | X | | X | | |
| 6 | Total Phosphorus | | | | X | X | | | | | | | |
| 7 | Specific Conductance | X | X | X | X | | | | | | X | | |
| 8 | Total Suspended Solids | X | X | X | X | X | X | X | X | X | X | X | X |
| 8 | Volatile Suspended Solids | | | | | X | X | X | X | X | | X | X |
| 9 | Aluminum | X | X | X | X | | | | | | X | | |
| 9 | Cadmium | X | | | | | | | | | | | |
| 9 | Chromium | X | X | X | X | | | | X | | | | X |
| 9 | Copper | X | X | X | X | | | | | | X | | |
| 9 | Lead | | | | | | | X | X | X | | | X |
| 9 | Molybdenum | X | X | | X | | | | | | | | |
| 9 | Thallium | X | X | | X | | | | | | | | |
| 9 | Zinc | X | X | X | X | | X | X | X | X | X | X | X |
| 10 | Selenium | | | | X | | | | | | | | |
| 11 | Chromium (hexavalent) | X | | | | | | | | | | | |
| 14 | Phenolics (4AAP) | X | X | X | X | X | X | | | | X | X | X |
| 15 | Sulphide | | | | X | | | | | | X | | |
| 17 | Benzene | | | | | X | | | | | | X | |
| 17 | Styrene | | | | | X | | | | | | | |
| 17 | m–Xylene and p–Xylene | | | | | X | | | | | | | |

NOTE: X indicates that a parameter is a potential candidate at that control point.

APPENDIX II
TABLE II–3

POTENTIAL CANDIDATE PARAMETERS AT EACH STREAM OF A PLANT

## DOFASCO STEEL

| ATG | PARAMETER | CONTROL POINT NUMBER | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0100 | 0200 | 0300 | 0400 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 |
| 17 | o–Xylene | | | | | X | | | | | | | |
| 19 | 1–Chloronaphthalene | | | | | X | | | | | | | |
| 19 | 1–Methylnaphthalene | | | | | X | | | | | | | |
| 19 | 2,4–Dinitrotoluene | | | | | X | | | | | | | |
| 19 | 2,6–Dinitrotoluene | | | | | X | | | | | | | |
| 19 | 2–Chloronaphthalene | | | | | X | | | | | | | |
| 19 | 2–Methylnaphthalene | | | | | X | | | | | | | |
| 19 | 4–Bromophenyl Phenyl Ether | | | | | X | | | | | | | |
| 19 | 4–Chlorophenyl Phenyl Ether | | | | | X | | | | | | | |
| 19 | 5–Nitro, Acenaphthene | | | | | X | | | | | | | |
| 19 | Acenaphthene | | | | | X | | | | | | | |
| 19 | Acenaphthylene | | | | | X | | | | | | | |
| 19 | Anthracene | | | | | X | | | | | | | |
| 19 | Benzo(a)anthracene | | | | | X | | | | | | | |
| 19 | Benzo(a)pyrene | | | | | X | | | | | | X | |
| 19 | Benzo(b)fluoranthene | | | | | X | | | | | | | |
| 19 | Benzo(g,h,i)perylene | | | | | X | | | | | | | |
| 19 | Benzo(k)fluoranthene | | | | | X | | | | | | | |
| 19 | Benzobutylphthalate | | | | | X | | | | | | | |
| 19 | Bis(2–chloroethoxyl)methane | | | | | X | | | | | | | |
| 19 | Bis(2–chloroethyl)ether | | | | | X | | | | | | | |
| 19 | Bis(2–chloroisopropyl)ether | | | | | X | | | | | | | |
| 19 | Bis(2–ethylhexyl)phthalate | | | | | X | | | | | | | |
| 19 | Camphene | | | | | X | | | | | | | |

NOTE: X indicates that a parameter is a potential candidate at that control point.

APPENDIX II
TABLE II–3

POTENTIAL CANDIDATE PARAMETERS AT EACH STREAM OF A PLANT

## DOFASCO STEEL

| ATG | PARAMETER | CONTROL POINT NUMBER | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0100 | 0200 | 0300 | 0400 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 |
| 19 | Chrysene | | | | X | X | | | | | | | |
| 19 | Di–n–butyl Phthalate | | | | | X | | | | | | | |
| 19 | Di–n–octyl Phthalate | | | | | X | | | | | | | |
| 19 | Dibenz(a,h)anthracene | | | | | X | | | | | | | |
| 19 | Diphenylamine | | | | | X | | | | | | | |
| 19 | Fluoranthene | | | | X | X | | | | | | | |
| 19 | Fluorene | | | | | X | | | | | | | |
| 19 | Indeno(1,2,3–cd)pyrene | | | | | X | | | | | | | |
| 19 | Indole | | | | | X | | | | | | | |
| 19 | N–Nitrosodi–n–propylamine | | | | | X | | | | | | | |
| 19 | N–Nitrosodiphenylamine | | | | | X | | | | | | | |
| 19 | Naphthalene | | | | | X | | | | | | X | |
| 19 | Perylene | | | | | X | | | | | | | |
| 19 | Phenanthrene | | | | | X | | | | | | | |
| 19 | Pyrene | | | | X | X | | | | | | | |
| 23 | Hexachloroethane | X | | | | | | | | | | | |
| 25 | Oil and Grease | X | X | X | X | X | | X | X | X | X | X | X |
| IS1 | Iron | X | X | X | X | | | | | | X | X | X |

NOTE: X indicates that a parameter is a potential candidate at that control point.

APPENDIX II
TABLE II–4

POTENTIAL CANDIDATE PARAMETERS AT EACH STREAM OF A PLANT

## STELCO HILTON WORKS

| ATG | PARAMETER | CONTORL POINT NUMBER | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 0100 | 0200 | 0400 | 0601 | 0602 | 1100 | 1200 | 1300 | 1400 |
| 2 | Cyanide Total | X | X | X | X | X | X | X | X | X |
| 4a | Ammonia plus Ammonium | X | X | X | X | X | | X | X | X |
| 4a | Total Kjeldahl Nitrogen | X | X | X | X | X | | | X | |
| 4b | Nitrate+Nitrite | X | X | X | X | X | X | X | X | |
| 5a | DOC | X | X | X | X | X | X | X | X | |
| 5b | TOC | X | | | | | | | | |
| 6 | Total Phosphorus | | X | | | | | | | |
| 7 | Specific Conductance | X | X | X | X | X | X | X | X | |
| 8 | Total Suspended Solids | X | X | X | X | X | X | X | X | X |
| 9 | Aluminum | X | X | X | X | X | X | X | X | |
| 9 | Cadmium | | X | | X | X | | | | |
| 9 | Copper | X | | X | X | X | X | X | X | |
| 9 | Lead | | | | | | | | | X |
| 9 | Nickel | | | X | X | X | | | | |
| 9 | Vanadium | X | X | X | X | X | X | X | | |
| 9 | Zinc | X | X | X | X | X | X | X | X | X |
| 14 | Phenolics (4AAP) | X | X | X | X | | X | X | X | X |
| 15 | Sulphide | X | | X | | X | | | | |
| 16 | Chloroform | | | | | | X | | | |
| 17 | Benzene | | X | | X | X | | | | |
| 17 | Toluene | | | | | X | | | | |

NOTE: X indicates that a parameter is a potential candidate at that control point.

APPENDIX II
TABLE II–4

POTENTIAL CANDIDATE PARAMETERS AT EACH STREAM OF A PLANT

## STELCO HILTON WORKS

| ATG | PARAMETER | CONTORL POINT NUMBER | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 0100 | 0200 | 0400 | 0601 | 0602 | 1100 | 1200 | 1300 | 1400 |
| 17 | m–Xylene and p–Xylene | | | | | X | | | | |
| 19 | Benzo(a)pyrene | X | | | | | | | X | |
| 19 | Chrysene | X | | | | | | | | |
| 19 | Fluoranthene | X | | | | | | | | |
| 19 | Phenanthrene | X | | | | | | | | |
| 19 | Pyrene | X | | | | | | | | |
| 25 | Oil and Grease | X | X | X | X | X | X | X | X | X |
| IS1 | Iron | X | X | X | X | X | X | X | X | X |

NOTE: X Indicates that a parameter is a potential candidate at that control point.

APPENDIX II
TABLE II–5
POTENTIAL CANDIDATE PARAMETERS AT EACH STREAM OF A PLANT

## STELCO LAKE ERIE WORKS

| ATG | PARAMETER | CONTROL POINT NUMBER | | | | | |
|---|---|---|---|---|---|---|---|
| | | 0100 | 0200 | 0300 | 0400 | 0500 | 0600 |
| 2 | Cyanide Total | X | | X | X | | X |
| 4a | Ammonia plus Ammonium | | | X | | | |
| 4a | Total Kjeldahl Nitrogen | X | | | | | |
| 4b | Nitrate+Nitrite | X | | | | | |
| 5a | DOC | X | | | | | |
| 6 | Total Phosphorus | X | X | | X | | |
| 7 | Specific Conductance | X | | | | | |
| 8 | Total Suspended Solids | X | X | X | | X | |
| 9 | Aluminum | X | | | | | |
| 9 | Cadmium | X | | | | | |
| 9 | Chromium | | | X | | | |
| 9 | Copper | X | | | | | |
| 9 | Zinc | X | | | X | X | |
| 10 | Selenium | X | | | | | |
| 12 | Mercury | X | | | | | |
| 14 | Phenolics (4AAP) | X | | X | X | | |
| 15 | Sulphide | | | X | | | |
| 16 | Bromoform | X | | | | | |
| 16 | Chloroform | X | | | | | |
| 16 | Dibromochloromethane | X | | | | | |
| 25 | Oil and Grease | X | | X | X | X | X |
| IS1 | Iron | X | | X | | X | X |

NOTE: X indicates that a parameter is a potential candidate at that control point.

APPENDIX II
TABLE II–6

POTENTIAL CANDIDATE PARAMETERS AT EACH STREAM OF A PLANT

## ATLAS SPECIALTY STEELS

| ATG | PARAMETER | CONTROL POINT NUMBER | | | | | |
|---|---|---|---|---|---|---|---|
| | | 0100 | 0200 | 0300 | 0400 | 0500 | 0800 |
| 4b | Nitrate+Nitrite | X | | | | | |
| 5a | DOC | X | | | | | |
| 7 | Specific Conductance | X | | | | | |
| 8 | Total Suspended Solids | X | X | X | | X | X |
| 8 | Volatile Suspended Solids | | X | | | | X |
| 9 | Aluminum | X | X | | | | |
| 9 | Cadmium | | X | | | | |
| 9 | Chromium | X | X | X | | | |
| 9 | Cobalt | | X | | | | |
| 9 | Copper | X | X | | | | |
| 9 | Lead | | X | | | | |
| 9 | Molybdenum | X | X | | | | |
| 9 | Nickel | X | X | X | X | X | X |
| 9 | Vanadium | | X | | | | |
| 9 | Zinc | X | X | X | X | X | X |
| 10 | Antimony | | X | | | | |
| 10 | Arsenic | | X | | | | |
| 11 | Chromium (hexavalent) | | X | | | X | |
| 25 | Oil and Grease | X | X | X | X | X | X |
| IS1 | Iron | X | | | | X | X |

NOTE: X indicates that a parameter is a potential candidate at that control point.

APPENDIX II
TABLE II–7
POTENTIAL CANDIDATE PARAMETERS AT EACH STREAM OF A PLANT

## IVACO

| ATG | PARAMETER | CONTROL POINT NUMBER | | | |
|---|---|---|---|---|---|
| | | 0200 | 0300 | 0400 | 0800 |
| 4a | Ammonia plus Ammonium | X | | | |
| 4a | Total Kjeldahl Nitrogen | X | | | |
| 4b | Nitrate+Nitrite | X | | | |
| 5a | DOC | X | | | |
| 5b | TOC | X | | | |
| 6 | Total Phosphorus | X | | | |
| 7 | Specific Conductance | X | | | |
| 8 | Total Suspended Solids | X | X | X | |
| 8 | Volatile Suspended Solids | X | | | |
| 9 | Aluminum | X | | | |
| 9 | Chromium | X | | | |
| 9 | Copper | X | | | |
| 9 | Lead | | X | | |
| 9 | Zinc | X | X | X | X |
| 11 | Chromium (hexavalent) | X | | | |
| 16 | Chloroform | X | | | |
| 16 | Methylene Chloride | X | | | |
| 16 | Tetrachloroethylene | X | | | |
| 16 | Trichloroethylene | X | | | |
| 17 | Toluene | X | | | |
| 19 | Phenanthrene | X | | | |
| 25 | Oil and Grease | X | X | X | |
| IS1 | Iron | X | X | X | X |

NOTE: X indicates that a parameter is a potential candidate at that control point.

APPENDIX II
TABLE II–8
POTENTIAL CANDIDATE PARAMETERS AT EACH STREAM OF A PLANT
**LASCO**

| ATG | PARAMETER | CONTROL POINT NUMBER | | |
|---|---|---|---|---|
| | | 0100 | 0200 | 0600 |
| 4a | Ammonia plus Ammonium | X | | |
| 4b | Nitrate+Nitrite | X | | |
| 5a | DOC | X | | |
| 6 | Total Phosphorus | X | | |
| 7 | Specific Conductance | X | | |
| 8 | Total Suspended Solids | X | X | X |
| 8 | Volatile Suspended Solids | | X | X |
| 9 | Aluminum | X | | |
| 9 | Cadmium | X | | |
| 9 | Copper | X | | |
| 9 | Lead | X | X | X |
| 9 | Molybdenum | X | | |
| 9 | Nickel | X | | |
| 9 | Zinc | X | X | X |
| 25 | Oil and Grease | X | X | X |
| IS1 | Iron | X | X | X |

NOTE: X indicates that a parameter is a potential candidate at that control point.

# APPENDIX III

## Results of QA/QC Assessment for Potential Candidate Parameters

# APPENDIX III

## Results of QA/QC Assessment For Candidate Parameters

### Integrated Steel Mills

This section presents, the QA/QC assessment result for each parameter selected as a candidate parameter for limit setting at the integrated steel mills. These assessment results are based on Appendix IV Table IV-1.

Results of the QA/QC assessment for each candidate parameter at each effluent stream are shown in Appendix IV Table IV-1 in the last column designated as 'status'. In establishing a general conclusions regarding the reliability of data for a given parameter at a given plant, emphasis is focused on the reliability of data from process, final and non contact cooling water effluent streams. Results of the general conclusions reached for a given candidate parameter at a plant are shown in Table 1.

**ATG 2**

**Cyanide Total:** **RMDL = 0.005 mg/L**

Candidate parameter at all four plants in the integrated steel mills. Its occurrence classification ranges from frequent high level to infrequent medium. The Effluent monitoring average concentration ratio varies from 8130.4 to 1.0.

The high field duplicate average difference ratios of 100.2 at Algoma's By-Products Area (#1400) and 416.6 at Dofasco's Coke Plant (#0700) do not pose field duplicate precision concern since the corresponding effluent monitoring average concentration ratios are also extremely high. The effluent monitoring average concentration ratio at Algoma's and Dofasco's cokemaking are 1240.0 and 8130.4 respectively. This parameter is confirmed at Algoma's 30 Inch Sewer Outfall (#0300) due to the overflow of the slurry sump from #7 blast furnace. Its presence at Algoma's Coke Oven Condenser (#1600), a cooling water stream, is questionable due to the fact that the travelling blank average concentration ratio of 2.8 is higher that the observed effluent monitoring average concentration ratio of 2.0.

The low effluent monitoring average concentration ratio of 1.4 at Stelco Hilton Works #2 Rod Mill (#1100), where cyanide is not used or produced at this hotforming mill, reflects only a qualitative presence of the parameter.

At Stelco Lake Erie Works (#0400), the blowdown treatment plant, no QA/QC concerns identified. At Stelco Lake Erie Works (#0300), waste disposal site, the presence of cyanide is doubtful due to the positive travelling blank at a level equal to the effluent monitoring average concentration ratio.

**Conclusion:** **Data from Algoma Steel, Dofasco Inc., Stelco Hilton Works, and Stelco Lake Erie Works are of reliable quality.**

**ATG 4A**

**Ammonia plus Ammonium:** **RMDL = 0.250 mg/L**

Candidate parameter at all four plants in the integrated steel mills. Its occurrence classification ranges from frequent high level to infrequent low level. The Effluent monitoring average concentration ratio varies from 3911.0 to 1.4.

The high field duplicate average difference ratios of 302.2 at Algoma's By-Products Area (#1400) and 13.7 at Dofasco's Coke Plant (#0700) do not pose field duplicate precision concern since the corresponding effluent monitoring average concentration ratio of 3911.0 at Algoma (#1400) and 315.9 at Dofasco (#0700) are also high.

The presence of ammonia at Algoma's 30 Inch Sewer Outfall (#0300), Cold Mill Storm Sewer (#0600), and Coke Oven Condenser (#1600, a cooling water stream) is questionable since the travelling blank average concentration ratio of 2.8 is higher than the effluent monitoring average concentrations at these outfalls.

No QA/QC concerns identified at all the remaining effluent streams where ammonia is a candidate parameter for limits.

**Conclusion:** **Data from Algoma Steel, Dofasco Inc., Stelco Hilton Works, and Stelco Lake Erie Works are of reliable quality.**

**Total Kjeldahl Nitrogen** **RMDL = 0.500 mg/L**

Candidate parameter at Dofasco Inc., Stelco Hilton Works, and Stelco Lake Erie Works. Total Kjeldahl Nitrogen is monitored at a quarterly frequency. Its occurrence classification ranges from frequent medium level to frequent low level. The effluent monitoring average concentration ratio varies from 4.2 to 1.1.

No QA/QC data are available to evaluate the reliability of the data. The effluent monitoring average concentration at Dofasco's East Boat Slip Sewer (#0100), West Bay Front Sewer, and Boiler Sewer #2 (#1200) are above 3.0 indicating possible quantitative presence of Total Kjeldahl Nitrogen. At the remaining effluent streams where Total Kjeldahl Nitrogen is a candidate parameter, the effluent monitoring average concentrations are lower than 2.0 indicating only qualitative presence of the parameter.

**Conclusion:** **Data from Dofasco Inc., and Stelco Hilton Works, and Stelco Lake Erie Works are of equivocal quality.**

**ATG 4B**

**Nitrate+Nitrite** **RMDL = 0.250 mg/L**

Candidate parameter at all the four plants in the integrated steel mills. It is monitored on a quarterly frequency. Its occurrence classification ranges from frequent high level to frequent low level. The effluent monitoring average concentration ratio varies from 78.4 to 1.2.

The high effluent monitoring average concentration ratio of 78.4 at Algoma Steel 60 Inch Sewer (#0200), a cooling water stream from the ironmaking process, is based only on two samples.

No QA/QC data are available to evaluate the reliability of the data. The effluent monitoring average concentrations lower than 2.0 indicate a qualitative presence of the parameter. The effluent monitoring average concentration ratios higher than 3.0 indicate a quantitative presence of the parameter. Without QA/QC data and the small number of samples, the reliability of the data cannot be confirmed.

**Conclusion:** **Data from Algoma Steel, Dofasco Inc., Stelco Hilton Works, and Stelco Lake Erie Works are of equivocal quality.**

ATG 5A

**Dissolved Organic Carbon (DOC) RMDL = 0.500 mg/L**

Candidate parameter at all the four plants in the integrated steel mills. It is monitored at a quarterly frequency. Its occurrence classification ranges from frequent high level to frequent medium level. The effluent monitoring average concentration ratio varies from 111.0 to 3.5. No QA/QC assessment concerns with the effluent monitoring data.

**Conclusion: Data from Algoma Steel, Dofasco Inc., Stelco Hilton Works, and Stelco Lake Erie Works are of reliable quality.**

ATG 5B

**Total Organic Carbon (TOC) RMDL = 5.000 mg/L**

Candidate parameter at Algoma and Stelco Hilton Works. It is monitored at a quarterly frequency. It is classified as frequent low level at both plants with effluent monitoring average concentration ratio of 1.0, and 1.3 respectively. The effluent monitoring average concentration ratios are lower than 2.0 indicating a qualitative presence of the parameter. No QA/QC concerns identified.

**Conclusion: Data from Algoma Steel and Stelco Hilton Works are of equivocal quality.**

ATG 6

**Total Phosphorous: RMDL = 0.100 mg/L**

Candidate parameter at all the four plants in the integrated steel mills. Its occurrence classification ranges from frequent high level to infrequent low level. The effluent monitoring average concentration ratio varies from 34.7 to 0.8. Phosphorus is found at frequent levels at iron and steel plants with biological treatment facilities and for plants that use phosphorous based additives for their cooling water.

No QA/QC assessment concerns with the effluent monitoring data at all effluent streams where total phosphorus is a candidate parameter. The high effluent monitoring average concentration ratios at Algoma's Terminal Settling Basins (#0700) and

Dofasco's Coke Plant (#0700) and Stelco Lake Erie's Blowdown Treatment Plant (#0400) indicate the quantitative presence of the parameter. The effluent monitoring average concentrations lower than 2.0 observed at final effluent streams (process effluent combined with cooling water and storm water) at Stelco Lake Erie (#0100), Algoma Steel (#1800), and Stelco Hilton Works (#0200) indicate the qualitative presence of the parameter.

**Conclusion:** **Data from Algoma Steel and Dofasco Inc. are of reliable quality. Data from Stelco Hilton Works and Stelco Lake Erie Works are of equivocal quality.**

ATG 8

**Total Suspended Solids** **RMDL = 5.000 mg/L**

Candidate parameter at all four plants in the integrated steel mills. The occurrence classification of total suspended solids ranges from frequent high level to infrequent low level. The effluent monitoring average concentration ratio varies from 617.5 to 0.7.

No QA/QC assessment concerns with the effluent monitoring data. High effluent monitoring average concentration ratios higher than 6.7 are observed at process effluents of Algoma Steel and Dofasco Inc. indicating a quantitative presence of the parameter. At the remaining effluent streams, where process effluent is mixed with cooling water, the effluent monitoring average concentrations are lower than 2.0 indicating only qualitative presence of the parameter.

**Conclusion:** **Data from Algoma Steel, Dofasco Inc., Stelco Hilton Works, and Stelco Lake Erie Works are of reliable quality.**

**Volatile Suspended Solids** **RMDL = 10.000 mg/L**

Candidate parameter at Algoma and Dofasco. Its occurrence classification ranges from frequent high level to infrequent low level. The effluent monitoring average concentration ratio varies from 29.6 to 0.6.

The high effluent monitoring average concentration ratios at Dofasco Inc.'s biological treatment plant effluent and storm water effluents from the cold mill Waste Water Treatment Plant (WWTP) (#0700, #1000, #1300, and #1400) indicate a

quantitative presence of the parameter. At the remaining effluent streams, the effluent monitoring average concentration is lower than 2.0 and no travelling blank data is available to confirm the presence of the parameter.

**Conclusion:** **Data from Dofasco Inc. are of reliable quality. Data from Algoma Steel are of equivocal quality.**

ATG 9

**Aluminum** **RMDL = 0.030 mg/L**

Candidate parameter at all four plants in the integrated steel mills. Its occurrence classification ranges from frequent high level to frequent low level. The effluent monitoring average concentration varies from 20.2 to 1.3.

Despite the positive travelling blanks at Dofasco Inc., Stelco Hilton Works, and Stelco Lake Erie Works indicating possible field contamination, the effluent monitoring average concentration ratios are consistently high showing that the parameter is quantitatively present. No other QA/QC assessment concerns identified.

**Conclusion:** **Data from Algoma Steel, Dofasco Inc., Stelco Hilton Works, and Stelco Lake Erie Works are of reliable quality.**

**Cadmium** **RMDL = 0.002 mg/L**

Candidate parameter at Dofasco Inc., Stelco Hilton Works, and Stelco Lake Erie Works. It is monitored at a monthly frequency at Dofasco Inc. and Stelco Hilton Works and at a weekly frequency at Stelco Lake Erie Works. Its occurrence classification ranges from frequent low level to infrequent low level. The effluent monitoring average concentration ratio varies from 4.0 to 1.0.

The effluent monitoring average concentration ratio of 4.0 at Stelco Lake Erie Works (#0100) confirms the presence of cadmium. At Stelco Hilton Works, the effluent monitoring average concentration ratio is lower than 2.0 indicating only possible qualitative presence of cadmium. At Dofasco Inc., the low effluent monitoring average concentration ratio of 1.0 and the positive travelling blank average concentration ratio of 1.0 indicates the doubtful presence of the parameter.

**Conclusion:** **Data from Stelco Lake Erie Works are of reliable quality. Data from Stelco Hilton Works are of equivocal quality. Data from Dofasco Inc. are of unreliable quality.**

**Chromium** **RMDL = 0.020 mg/L**

Candidate parameter at Dofasco Inc. and Stelco Lake Erie Works. Its occurrence classification ranges from frequent high level to infrequent low level. The effluent monitoring average concentration ratio varies from 39.8 to 0.7. Chromium is a characteristic parameter for the finishing operations at the iron and steel plants.

The high effluent monitoring average concentration ratios at Dofasco Inc.'s Cold Mill Treatment Plant Sewer (#1000) indicate the quantitative presence of chromium. At Dofasco Inc. (#0400), the low effluent monitoring average concentration ratio coupled with the field duplicate average concentration difference ratio of 2.3 poses field duplicate precision concern and questionable presence of chromium at this final effluent stream.

Stelco Lake Erie Works does not have finishing operations. Chromium is monitored on a quarterly frequency. At the Waste Disposal Site (#0300), chromium is found at a concentration ratio of 3.1. The effluent from the Waste Disposal Site is treated at the blowdown treatment plant.

**Conclusion:** **Data from Dofasco Inc. and Stelco Lake Erie Works are of reliable quality.**

**Copper** **RMDL = 0.010 mg/L**

Candidate parameter for Dofasco Inc., Stelco Hilton Works, and Stelco Lake Erie Works. Its occurrence classification ranges from frequent medium level to frequent low level. The effluent monitoring average concentration ratio varies from 5.0 to 1.2.

At Stelco Hilton Works and Stelco Lake Erie Works, the quantitative presence of copper is doubtful due to the field contamination concern posed by the travelling blank average concentration ratios which are higher than the effluent monitoring average concentration ratios.

At Dofasco Inc. the positive travelling blank poses a field contamination concern.

**Conclusion:** **Data from Dofasco Inc. are of equivocal quality. Data from Stelco Hilton Works, and Stelco Lake Erie Works are of unreliable quality.**

**Lead** **RMDL = 0.030 mg/L**

Candidate parameter at Algoma Steel, Dofasco Inc., and Stelco Hilton Works. Its occurrence classification ranges from frequent medium to infrequent low level. The effluent monitoring average concentration ratio varies from 77.1 to 1.0.

No QA/QC assessment concerns identified with the effluent monitoring data. At Stelco Hilton Works, lead is a candidate parameter only at the Emergency Overflow Weir which represents the influent stream to the East Side Filter Plant (#0601). The effluent monitoring average concentration ratios at Algoma Steel (#1300) and Dofasco Inc. (#1000 and #1400) indicate the quantitative presence of lead. The effluent monitoring average concentration ratio at Algoma Steel (#0100) and Dofasco Inc. (#0900 and #1000) indicate only the possible qualitative presence of lead.

**Conclusion:** **Data from Algoma Steel, Dofasco Inc. and Stelco Hilton Works are of reliable quality.**

**Molybdenum** **RMDL = 0.020 mg/L**

Candidate parameter for Algoma Steel and Dofasco Inc.. It is monitored on a monthly frequency. It is consistently classified as frequent low level and its effluent monitoring average concentration ratio varies from 2.9 to 1.1.

At Dofasco Inc. and Algoma Steel, the positive travelling blank poses a field contamination concern. The effluent monitoring average concentration ratios which are below 2.0 indicate only possible qualitative presence of molybdenum.

**Conclusion:** **Data from Algoma Steel are of equivocal quality. Data from Dofasco Inc. are of unreliable quality.**

**Nickel** **RMDL = 0.020 mg/L**

Candidate parameter at Stelco Hilton Works. It is monitored at a monthly frequency. Its occurrence classification ranges from frequent low level to infrequent low level. The effluent monitoring average concentration ratio varies from 1.2 to 0.9. The effluent monitoring average concentration ratio indicate only the qualitative presence of nickel.

**Conclusion:** **Data from Stelco Hilton Works are of unreliable quality.**

**Thallium** **RMDL = 0.030 mg/L**

Candidate parameter at Dofasco Inc.. It is monitored at a monthly frequency. Its occurrence classification ranges from frequent low level to infrequent low level. The effluent monitoring average concentration ratio varies from 2.0 to 0.9.

The positive travelling blank at Dofasco Inc. poses a field contamination concern. The low effluent monitoring average concentration ratios at Dofasco Inc. (#0100 and #0400) which are lower than the travelling blank average concentration ratio pose a field contamination concern making the presence of thallium doubtful.

**Conclusion:** **Data from Dofasco Inc. are of equivocal quality.**

**Vanadium** **RMDL = 0.030 mg/L**

Candidate parameter at Stelco Hilton Works (mainly in the cooling water streams). It is monitored at a monthly frequency. Its occurrence classification ranges from frequent medium level to frequent low level. The effluent monitoring average concentration ratio varies from 3.6 to 1.7.

No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Stelco Hilton Works are of reliable quality.**

**Zinc** **RMDL = 0.010 mg/L**

Candidate parameter for all the four plants in the integrated steel mills. Its occurrence classification ranges from frequent high level to infrequent low level. The effluent monitoring average concentration ratio varies from 604.4 to 0.9.

At Stelco Hilton Works (#0601), the field duplicate average concentration difference ratio of 7.2 is caused by one of nine very high field duplicate value (0.650 mg/L). Thus the field duplicate precision at Stelco Hilton is acceptable. No other QA/QC assessment concerns identified with the effluent monitoring data. High effluent monitoring average concentration ratio at most of the process and final discharge effluent streams at all plants confirms the quantitative presence of zinc.

The presence of zinc at Algoma Steel's cooling water streams (#0200 and #0300) is not confirmed.

**Conclusion:** **Data from Algoma Steel, Dofasco Inc., Stelco Hilton Works, and Stelco Lake Erie Works are of reliable quality.**

**ATG 10**

**Arsenic** **RMDL = 0.005 mg/L**

Candidate parameter at Algoma Steel only. It was monitored at a monthly frequency. It is consistently classified as frequent low level with effluent monitoring average concentration ratio of 1.2 and 1.0. No QA/QC data is available to assess the reliability of the data. The low effluent monitoring average concentration ratio indicates only qualitative presence of arsenic.

**Conclusion:** **Data from Algoma Steel are of equivocal quality.**

**Selenium** **RMDL = 0.005 mg/L**

Candidate parameter at Algoma Steel, Dofasco Inc. and Stelco Lake Erie Works. It is monitored at a monthly frequency. Its occurrence classification ranges from frequent medium level to frequent low level. The effluent monitoring average concentration ratio varies from 3.4 to 1.2.

No QA/QC assessment concerns identified with the effluent monitoring data. The effluent monitoring average concentration ratio of 3.4 at Stelco Lake Erie Works indicates a quantitative presence of selenium.

**Conclusion:** **Data from Stelco Lake Erie Works are of reliable quality. Data from Algoma Steel and Dofasco Inc. are of equivocal quality.**

ATG 11

**Chromium (hexavalent)** **RMDL = 0.010 mg/L**

Candidate parameter at Dofasco Inc. only. It is classified as frequent medium level with effluent monitoring average concentration ratio of 2.3. No QA/QC data available to assess the reliability of the data. The effluent monitoring average concentration ratio of 2.3 indicates possible quantitative presence of the parameter.

**Conclusion:** **Data from Dofasco Inc. are of equivocal quality.**

ATG 12

**Mercury** **RMDL = 0.100 ug/L**

Candidate parameter at Stelco Lake Erie Works only. The caustic used in the alkaline break-point chlorination treatment process may have a mercury impurity. The coal being used as a raw material may also have a mercury impurity. It is classified as frequent medium level with effluent monitoring average concentration ratio of 4.8. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Stelco Lake Erie Works are of reliable quality.**

ATG 14

**Phenolics** **RMDL = 2.000 ug/L**

Candidate parameter for all the four plants in the integrated steel mills. Its occurrence classification ranges from frequent high level to infrequent low level. The effluent monitoring average concentration ratio varies from 6246.0 to 0.9.

At Algoma Steel, a positive travelling blank average concentration ratio of 3.2 poses a field contamination concern. This concern makes the presence of the parameter doubtful at streams with effluent monitoring average concentration ratio lower than 3.2.

At the by-products area of the cokemaking operations of Algoma Steel (#1400) and Dofasco Inc. (#0700), high values of field duplicate average difference ratios do not pose duplicate precision concern since corresponding effluent monitoring average concentration ratios are also high. At Stelco Hilton Works (#0100) a field duplicate average difference ratio higher than the effluent monitoring average concentration ratio poses a duplicate precision concern.

**Conclusion:** **Data from Algoma Steel, Dofasco Inc., Stelco Hilton Works, and Stelco Lake Erie are of reliable quality.**

**ATG 15**

**Sulphide** **RMDL = 0.020 mg/L**

Candidate parameter at all the four plants in the integrated steel mills. It is monitored on a quarterly frequency at Dofasco Inc., Stelco Hilton Works, and Stelco Lake Erie Works. It is monitored on daily frequency at Algoma Steel as a requirement of the Control Order. Its occurrence classification ranges from frequent high level to frequent low level. The effluent monitoring average concentration ratio varies from 746.0 to 1.0.

At Algoma Steel, the positive travelling blank poses field contamination concern. No QA/QC data available at Stelco Hilton Works, Dofasco Inc., and Stelco Lake Erie Works. The high effluent monitoring average concentration ratio of 746.0 at the Stelco Lake Erie Works is from an event oriented stream (Waste Disposal Site) and is based on three samples.

**Conclusion:** **Data from Algoma Steel, Dofasco Inc., Stelco Hilton Works, and Stelco Lake Erie Works are of equivocal quality.**

**ATG 16**

**Bromoform** **RMDL = 3.700 ug/L**

Unique candidate parameter at Stelco Lake Erie Works, since alkaline break-point chlorination is used at this plant to

remove cyanide. Classified as frequent high level with effluent monitoring average concentration ratio of 9.1. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Stelco Lake Erie Works are of reliable quality.**

**Chloroform** **RMDL = 0.700 ug/L**

Candidate parameter at Algoma Steel, Stelco Hilton Works, and Stelco Lake Erie Works. Its occurrence classification ranges from frequent medium level to frequent low level. The effluent monitoring average concentration ratio varies from 6.1 to 1.2.

At Stelco Lake Erie Works (#0100), chloroform is detected in the travelling blank posing probable field contamination concern. The travelling blank average concentration ratio of 5.4 is higher than the effluent monitoring average concentration ratio of 4.3 casting doubt of the quantitative presence of chloroform. At Algoma Steel (#1800), there is recovery concern.

At Stelco Hilton Works, the effluent monitoring average concentration of 1.2 indicates only qualitative presence of chloroform. Taking into consideration the travelling blank average concentration ratio of 0.6 and the uncorrected sample average difference ratio of 0.8, the presence of chloroform at Stelco Hilton Works (#1100) is doubtful.

**Conclusion:** **Data from Algoma Steel and Stelco Hilton Works are of equivocal quality. Data from Stelco Lake Erie Works are of unreliable quality.**

**Dibromochloromethane** **RMDL = 1.100 ug/L**

Unique candidate parameter at Stelco Lake Erie Works, since alkaline break-point chlorination is used at this plant to remove cyanide. It is monitored at a monthly frequency. It is classified as frequent high level with effluent monitoring average ratio of 22.0. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Stelco Lake Erie Works are of reliable quality.**

ATG 17

**Benzene** **RMDL = 0.500 ug/L**

Candidate parameter at Algoma Steel, Dofasco Inc., and Stelco Hilton Works. Its occurrence classification ranges from frequent high level to infrequent high level. The effluent monitoring average concentration ratio varies from 3333.0 to 3.0.

At Dofasco Inc., there is no QA/QC assessment concerns identified with the effluent monitoring data.

At Stelco Hilton Works (#0200 - Northwest Outfall), a final effluent, the uncorrected sample average difference ratio of 3.4 is higher than the effluent monitoring average difference ratio of 3.0. This poses possible under-correction concerns at the laboratory. However, from the available data, benzene is present at quantitative levels.

At Algoma Steel (#1400), there is a under-recovery concern but the high effluent monitoring average concentration ratio (3333.0) indicates that benzene is present at quantitative levels.

**Conclusion:** **Data from Algoma Steel, Dofasco Inc., and Stelco Hilton Works are of reliable quality.**

**Styrene** **RMDL = 0.500 ug/L**

Candidate parameter at Dofasco Inc. only. It is monitored at a monthly frequency. It is classified as frequent low level with effluent monitoring average concentration ratio of 2.4. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Dofasco Inc. are of reliable quality.**

**Toluene** **RMDL = 0.500 mg/L**

Candidate parameter at Algoma Steel and Stelco Hilton Works. It is infrequently monitored parameter. It is classified as frequent high level at Algoma Steel with effluent monitoring average concentration ratio of 1880.7. It is classified as frequent medium level at Stelco Hilton Works with effluent monitoring concentration ratio of 4.8.

No QA/QC concerns identified with the effluent monitoring data at Stelco Hilton Works. At Algoma Steel, the low recovery level of 35% poses probable under-recovery concern. Based on the very high effluent monitoring average concentration ratio observed at Algoma Steel, toluene is present at quantitative levels.

**Conclusion:** **Data from Algoma Steel and Stelco Hilton Works are of reliable quality.**

**M-xylene and p-xylene** **RMDL = 1.100 ug/L**

Candidate parameter at Algoma Steel, Dofasco Inc., and Stelco Hilton Works. It is infrequently monitored parameter. Its occurrence classification ranges from frequent medium level to frequent low level. The effluent monitoring average concentration ratio varies from 26.1 to 1.8. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Algoma Steel, and Dofasco Inc. are of reliable quality Data from Stelco Hilton Works are of equivocal quality.**

**O-xylene** **RMDL = 0.500 ug/L**

Candidate parameter at the cokemaking operations of Algoma Steel and Dofasco Inc.. Classified as frequent low level at both plants with effluent monitoring average concentration ratio of 30.0 and 2.0 respectively.

No QA/QC assessment concerns identified with the effluent monitoring data at Dofasco Inc.. At Algoma Steel (#1400), a high recovery of 133% poses an over-recovery concern. Based on the high effluent monitoring average concentration ratio of 30, o-xylene is present at quantitative levels.

**Conclusion:** **Data from Algoma Steel and Dofasco Inc. are of reliable quality.**

ATG 19

*Results of the QA/QC assessment for ATG 19 which were carried out at the cokemaking operations at Algoma Steel and Dofasco Inc. should apply to all the integrated steel plants in the sector.*

**1-Chloronaphthalene** **RMDL = 2.500 ug/L**

It is classified as frequent low level and effluent monitoring average concentration ratio of 1.4. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion: Data are of equivocal quality.**

**1-Methylnaphthalene** **RMDL = 3.200 ug/L**

It is classified as frequent low level and effluent monitoring average concentration ratio of 3.0. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion: Data are of reliable quality.**

**2,4-Dinitrotoluene** **RMDL = 0.800 ug/L**

It is classified as frequent low level and effluent monitoring average concentration ratio of 2.7. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion: Data are of reliable quality.**

**2,6-Dinitrotoluene** **RMDL = 0.700 ug/L**

It is classified as frequent low level and effluent monitoring average concentration ratio of 3.7. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion: Data are of reliable quality.**

**2-Chloronaphthalene** **RMDL = 1.800 ug/L**

It is classified as frequent low level and effluent monitoring average concentration ratio of 2.2. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion: Data are of equivocal quality.**

**2-Methylnaphthalene** **RMDL = 2.200 ug/L**

It is classified as frequent low level and effluent monitoring average concentration ratio of 3.0. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion: Data are of reliable quality.**

**4-Bromophenyl Phenyl Ether** **RMDL = 0.300 ug/L**

It is classified as frequent low level and effluent monitoring average concentration ratio of 4.3. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data are of reliable quality.**

**4-Chlorophenyl Phenyl Ether** **RMDL = 0.900 ug/L**

It is classified as frequent low level and effluent monitoring average concentration ratio of 4.3. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data are of reliable quality.**

**5-Nitro, Acenaphthene** **RMDL = 4.300 ug/L**

It is classified as frequent low level and effluent monitoring average concentration ratio of 1.8. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data are of equivocal quality.**

**Acenaphthene** **RMDL = 1.300 ug/L**

It is classified as frequent low level and effluent monitoring average concentration ratio of 2.3. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data are of equivocal quality.**

**Acenaphthylene** **RMDL = 1.400 ug/L**

At Dofasco Inc., it is classified as frequent high level with effluent monitoring average concentration ratio of 13.7. At Algoma Steel, it is classified as frequent low level in Algoma Steel with a very high effluent monitoring average concentration ratio of 222.6.

At Dofasco Inc., the field duplicate average difference ratio of 6.4 poses a possible duplicate precision concern.

**Conclusion:** **Data from Algoma Steel and Dofasco Inc. are of reliable quality.**

**Anthracene** **RMDL = 1.200 ug/L**

It is as frequent low level at Algoma Steel and Dofasco Inc. with effluent monitoring average concentration ratio of 93.1 and 3.4 respectively.

At Dofasco Inc., field duplicate average difference ratio of 2.7 poses duplicate precision concern.

**Conclusion:** **Data from Algoma Steel are of reliable quality. Data from Dofasco Inc. are of equivocal quality.**

**Benzo(a)anthracene** **RMDL = 0.500 ug/L**

It is as frequent high level at Dofasco Inc. with an effluent monitoring average concentration ratio of 102.5. At Algoma Steel classified as frequent high level with effluent monitoring average concentration ratio of 215.9.

At Dofasco Inc., the average recovery of 34 percent poses an under-recovery concern. A field duplicate average difference ratio of 119.0 higher than the effluent monitoring average concentration ratio poses a field duplicate precision concern. At Algoma Steel, there is no QA/QC concern identified with the effluent monitoring data.

**Conclusion:** **Data from Algoma Steel are of reliable quality. Data from Dofasco Inc. are of unreliable quality.**

**Benzo(a)pyrene** **RMDL = 0.600 ug/L**

Its occurrence classification varies from frequent high level to infrequent low level. Its effluent monitoring average concentration ratio varies from 101.1 to 1.1.

At Dofasco Inc., the low average percent recovery poses an under-recovery concern. The field duplicate average difference concentration ratio of 29.9 poses no field duplicate precision concern since the high effluent monitoring average concentration ratio of 101.1 is also very high.

At Stelco Hilton Works, the low average recovery poses under-recovery concern and the positive travelling blank average concentration ratio of 0.9 poses a field contamination concern. It is expected that benzo(a)pyrene not to be present

since the weak ammonia liquor, which is the main source of benzo(a)pyrene, is discharged to the Hamilton Wentworth sewage treatment plant.

At Algoma Steel, the high field duplicate average difference ratio of 5.1 poses field duplicate precision concern.

**Conclusion:** **Data from Algoma Steel and Dofasco Inc. are of reliable quality. Data from Stelco Hilton Works are of unreliable quality.**

**Benzo(b)fluoranthene** **RMDL = 0.700 ug/L**

At Dofasco Inc., it is classified as frequent high level with effluent monitoring average concentration ratio of 82.9 and average recovery of 42 percent. At Dofasco Inc., the field duplicate average concentration difference ratio of 52.9 poses a field duplicate precision concern.

At Algoma Steel, it is classified as frequent high level with effluent monitoring average concentration ratio of 170.0 and average recovery of 97 percent. No QA/QC concerns identified with the effluent monitoring data at Algoma Steel.

**Conclusion:** **Data from Algoma Steel and Dofasco Inc. are of reliable quality.**

**Benzo(g,h,i)perylene** **RMDL = 0.700 ug/L**

At Dofasco Inc., it is classified as frequent high level with effluent monitoring average concentration ratio of 24.7. The average recovery of 28 percent poses under-recovery concern.

At Algoma Steel, it is classified as frequent high level with effluent monitoring average concentration ratio of 109.0 and average recovery of 92 percent. No QA/QC concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Algoma Steel are of reliable quality. Data from Dofasco Inc. are of equivocal quality.**

**Benzo(k)fluoranthene** **RMDL = 0.700 ug/L**

At Dofasco Inc., it is classified as frequent high level with effluent monitoring average concentration ratio of 25.9 and

average recovery of 39 percent. At Dofasco Inc., the field duplicate average concentration difference ratio of 52.9 which is higher than the effluent monitoring average concentration ratio poses a field duplicate precision concern.

At Algoma Steel, it is classified as frequent high level with effluent monitoring average concentration ratio of 95.0 and average recovery of 91 percent. No QA/QC concerns identified with the effluent monitoring data at Algoma Steel.

**Conclusion:** **Data from Algoma Steel are of reliable quality. Data from Dofasco Inc. are of unreliable quality.**

**Benzobutylphthalate** **RMDL = 0.600 ug/L**

At Dofasco Inc., it is classified as frequent low level with effluent monitoring average concentration ratio of 4.3. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Dofasco Inc. are of reliable quality.**

**Bis(2-chloroethoxyl)methane** **RMDL = 3.500 ug/L**

At Dofasco Inc., it is classified as frequent low level with effluent monitoring average concentration ratio of 1.6. No QA/QC concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Dofasco Inc. are of equivocal quality.**

**Bis(2-chloroethyl)ether** **RMDL = 4.400 ug/L**

It is classified as frequent low level with effluent monitoring average concentration ratio of 1.8. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Dofasco Inc. are of equivocal quality.**

**Bis(2-chloroisopropyl)ether** **RMDL = 2.200 ug/L**

It is classified as frequent low level with effluent monitoring average concentration ratio of 3.0. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Dofasco Inc. are of reliable quality.**

**Bis(2-ethylhexyl)phthalate** **RMDL = 2.200 ug/L**

At Dofasco Inc., it is classified as frequent medium level with effluent monitoring average concentration ratio of 3.4. The positive travelling blank average concentration ratio of 2.6 poses a field contamination concern and the high field duplicate average difference ratio of 2.4 poses a duplicate precision concern.

At Algoma Steel, it is classified as infrequent low with effluent monitoring average concentration ratio of 1.0 and travelling blank average concentration ratio of 0.6.

**Conclusion:** **Data from Algoma Steel and Dofasco Inc. are of unreliable quality.**

**Camphene** **RMDL = 3.500 ug/L**

At Dofasco Inc., it is classified as frequent low level with effluent monitoring average concentration ratio of 1.2. An average recovery of 25 percent poses under-recovery concern.

**Conclusion:** **Data from Dofasco Inc. are of unreliable quality.**

**Chrysene** **RMDL = 0.300 ug/L**

At Algoma Steel, it is classified as frequent high level with effluent monitoring concentration ratio of 386.3 and good recoveries. No QA/QC concerns identified with the effluent monitoring data.

At Stelco Hilton Works, it is classified as frequent low level with effluent monitoring average concentration ratio of 2.5 and average recovery of 30 percent which poses an under-recovery concern.

At Dofasco Inc., it is classified as frequent high level with effluent monitoring average concentration ratio 162.5. The field duplicate average difference concentration ratio of 176.7 which is higher than the effluent monitoring average concentration ratio (162.5) poses a field duplicate precision concern. The average recovery of 32 percent indicates an under-recovery concern.

**Conclusion:** **Data from Algoma Steel are of reliable quality. Data from Dofasco Inc. are of unreliable quality. Data from Stelco Hilton Works are of equivocal quality.**

**Di-n-butyl Phthalate** **RMDL = 3.800 ug/L**

At Dofasco Inc., it is classified as frequent low level with effluent monitoring average concentration ratio of 1.3.

**Conclusion:** **Data from Dofasco Inc. are of unreliable quality.**

**Di-n-octyl Phthalate** **RMDL = 2.000 ug/L**

At Dofasco Inc., it is classified as frequent low level with effluent monitoring average concentration ratio of 1.7. The spiked blank average recovery of 33 percent indicates probable under-recovery concern.

**Conclusion:** **Data from Dofasco Inc. are of unreliable quality.**

**Dibenz(a,h)anthracene** **RMDL = 1.300 ug/L**

At Dofasco Inc., it is classified as frequent low level with effluent monitoring average concentration ratio of 4.2. Spiked blank average recovery of 28 percent indicates probable under-recovery concern.

**Conclusion:** **Data from Dofasco Inc. are of equivocal quality.**

**Diphenylamine** **RMDL = 14.000 ug/L**

At Dofasco Inc., it is classified as infrequent low level with effluent monitoring average concentration ratio of 0.6.

**Conclusion:** **Data from Dofasco Inc. are of unreliable quality.**

**Fluoranthene** **RMDL = 0.400 ug/L**

At Algoma Steel, it is classified as frequent high level with effluent monitoring concentration ratio of 1011.6. No QA/QC assessment concerns identified with the effluent monitoring data.

At Dofasco Inc., its occurrence classification varies from frequent high level to frequent low level with effluent monitoring average concentration ratio varying from 181.0 to 1.3. At Dofasco Inc. (#0700), the field duplicate average difference ratio (253.8) is very high compared to the effluent monitoring average concentration ratio (181.0). This poses probable field duplicate precision concern.

At Stelco Hilton Works, it is classified as frequent medium level with an effluent monitoring average concentration ratio of 4.8. No QA/QC concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Algoma Steel and Stelco Hilton Works are of reliable quality. Data from Dofasco Inc. are of unreliable quality.**

**Fluorene** **RMDL = 1.700 ug/L**

It is classified as frequent low level at Algoma Steel and Dofasco Inc. with effluent monitoring average concentration ratio of 77.6 and 2.4 respectively. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Algoma Steel and Dofasco Inc. are of reliable quality.**

**Indeno(1,2,3-cd)pyrene** **RMDL = 1.300 ug/L**

At Algoma Steel, it is classified as frequent high level with effluent monitoring average concentration ratio of 63.8. No QA/QC assessment concerns identified with the effluent monitoring data.

At Dofasco Inc., it is classified as frequent high level with effluent monitoring average concentration ratio of 14.9. The spiked blank average recovery of 28 percent poses probable under-recovery concern.

**Conclusion:** **Data from Algoma Steel are of reliable quality. Data from Dofasco Inc. are of equivocal quality.**

**Indole** **RMDL = 1.900 ug/L**

At Dofasco Inc., it is It is classified as frequent low with effluent monitoring average concentration ratio of 71.3. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Dofasco Inc. are of reliable quality.**

**N-Nitrosodi-n-propylamine** **RMDL = 3.100 ug/L**

At Dofasco Inc., it is classified as frequent low level with effluent monitoring average concentration ratio of 2.9. The spiked blank maximum recovery of 155 percent poses a false positive concern.

**Conclusion:** **Data from Dofasco Inc. are of equivocal quality.**

**N-Nitrosodiphenylamine** **RMDL = 14.000 ug/L**

At Dofasco Inc., it is classified as infrequent low level with effluent monitoring average concentration ratio of 0.6. No QA/QC assessment concerns identified with the effluent monitoring data but the effluent monitoring average concentration ratio of 0.6 indicates that the presence of the parameter is marginal.

**Conclusion:** **Data from Dofasco Inc. are of unreliable quality.**

**Naphthalene** **RMDL = 1.600 ug/L**

At Algoma Steel (#1400), it is classified as frequent high level with effluent monitoring average concentration ratio of 10.6. The high field duplicate average concentration ratio of 8.8 poses a field duplicate precision concern.

At Dofasco Inc., the occurrence classification varies from frequent high level to frequent low level and the effluent monitoring average concentration ratio ranges from 155.0 to 6.3. No QA/QC concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Dofasco Inc. are of reliable quality. Data from Algoma Steel are of equivocal quality.**

**Perylene** **RMDL = 1.500 ug/L**

At Algoma Steel, it is classified as frequent high level with effluent monitoring average concentration ratio of 27.2. No QA/QC assessment concerns identified with the effluent monitoring data.

At Dofasco Inc., it is classified as frequent high level with effluent monitoring average concentration ratio of 7.7. The low spiked blank average recovery of 32 percent poses an under-recovery concern.

**Conclusion:** **Data from Algoma Steel are of reliable quality. Data from Dofasco Inc. are of equivocal quality.**

**Phenanthrene** **RMDL = 0.400 ug/L**

At Algoma Steel, it is classified as frequent low level and effluent monitoring average concentration ratio of 1008.8. No QA/QC concerns identified with the effluent monitoring data.

At Dofasco Inc., it is classified as frequent medium with effluent monitoring average concentration ratio of 16.2. The field duplicate average concentration difference ratio of 17.4 indicates a possible field duplicate precision concern.

At Stelco Hilton Works, it is classified as frequent low level and effluent monitoring average concentration ratio of 2.7. No QA/QC concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Algoma Steel and Stelco Hilton Works are of reliable quality. Data from Dofasco Inc. are of unreliable quality.**

**Pyrene** **RMDL = 0.400 ug/L**

At Algoma Steel, it is classified as frequent high level and effluent monitoring average concentration ratio of 751.4. No QA/QC assessment concerns identified with the effluent monitoring data.

At Dofasco Inc., it is classified as frequent high with effluent monitoring average concentration ratio of 168.5. The high field duplicate average concentration difference ratio of 188.8 indicates a field duplicate precision concern.

At Stelco Hilton Works, it is classified as frequent medium with effluent monitoring average concentration ratio of 3.9. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Algoma Steel and Stelco Hilton Works are of reliable quality. Data from Dofasco Inc. are of equivocal quality.**

**ATG 23**

**Hexachlorobenzene** **RMDL = 0.010 ug/L**

Candidate parameter at Algoma Steel. It is classified as infrequent medium level with effluent monitoring average concentration ratio of 1.4. The positive travelling blank (1.0) and low effluent monitoring average concentration ratio (1.4) pose a doubt on the quantitative presence of the parameter.

**Conclusion:** **Data from Algoma Steel are of unreliable quality.**

**Hexachloroethane** **RMDL = 0.010 ug/L**

Candidate parameter at Dofasco Inc.. It is classified as infrequent high level with effluent monitoring average concentration ratio of 5.1. The low spiked blank average recovery of 21 percent indicates a possible under-recovery concern.

**Conclusion:** **Data from Dofasco Inc. are of equivocal quality.**

ATG 25

**Oil and Grease** **RMDL = 1.000 mg/L**

Candidate parameter at all the four plants in the integrated steel mills. Its occurrence classification varies from frequent high level to infrequent low level. Its effluent monitoring average concentration ratio ranges from 67.7 to 0.8.

No major QA/QC concerns identified with the effluent monitoring data at all the four plants except the slightly positive travelling blank at Stelco Hilton Works and Stelco Lake Erie Works.

Oil and grease, as expected, is not present at quantitative levels in the ironmaking and steelmaking effluents. Its quantitative presence is confirmed at the hotforming and finishing operations effluents.

At Stelco Lake Erie Works final effluent stream (#0100) and process effluent stream (#0400), the effective treatment has maintained the occurrence of oil and grease at frequently low levels and concentration ratios of about 1.4.

**Conclusion:** **Data from Algoma Steel, Dofasco Inc., and Stelco Hilton Works are of reliable quality.Data from Stelco Lake Erie Works are of equivocal quality.**

ATG 26

**Dehydroabietic Acid** **RMDL = 5.000 ug/L**

Candidate parameter at Algoma Steel. No QA/QC data available to assess the reliability of the data. Effluent monitoring average concentration ratio of 2.3 indicates a quantitative presence of the parameter.

**Conclusion:** **Data from Algoma Steel are of equivocal quality.**

**ATG IS1**

**Iron** **RMDL = 0.020 mg/L**

Candidate parameter at all the four plants in the integrated steel mills. Its occurrence classification ranges from frequent high level to frequent low level. Its effluent monitoring average concentration ratio varies from 4106.4 to 3.0. Except at Stelco Lake Erie Works (#0100), there are no QA/QC assessment concerns identified with the effluent monitoring data at all the effluent streams where iron is a candidate parameter.

At Stelco Lake Erie Works #0100, the process effluent from the blowdown treatment plant is mixed with cooling water and storm water. The field duplicate average difference ratio of 22.4 which is higher than the observed effluent average concentration ratio of 18.7 poses a possible duplicate precision concern. The positive travelling blank average concentration ratio of 1.4 poses a field duplicate precision concern.

**Conclusion:** **Data from Algoma Steel, Dofasco Inc., Stelco Hilton Works, and Stelco Lake Erie Works are of reliable quality.**

# APPENDIX III

## Results of QA/QC Assessment for Candidate Parameters

### Mini and Specialty Steel Mills

This section presents, the QA/QC assessment result for each parameter selected as a candidate parameter for limit setting at the mini and specialty steel mills. These assessment results are based on Appendix IV Table IV-2.

Results of the QA/QC assessment for each candidate parameter at each effluent stream are shown in Appendix IV Table IV-2 in the last column designated as 'status'. In establishing a general conclusions regarding the reliability of data for a given parameter at a given plant, emphasis is focused on the reliability of data from process, final and non contact cooling water effluent streams. Results of the general conclusions reached for a given candidate parameter at a plant is shown in Table 1 in the executive summary.

**ATG 4A**

**Ammonia plus Ammonium:** **RMDL = 0.250 mg/L**

Candidate parameter at IVACO and LASCO. At IVACO, classified as frequent low level with effluent monitoring average concentration ratio of 1.2. At LASCO, classified as frequent low level with effluent monitoring average concentration ratio of 1.4. For both plants no QA/QC data available to assess the reliability of the data. The effluent monitoring average concentration ratios at both plants indicate only the qualitative presence of the parameter.

**Conclusion:** **Data from IVACO and LASCO are of unreliable quality.**

**Total Kjeldahl Nitrogen** **RMDL = 0.500 mg/L**

Candidate parameter at IVACO. It is classified as frequent low level with effluent monitoring average concentration ratio of 2.0. No QA/QC data available to evaluate the reliability of the data. The effluent monitoring average concentration ratio indicate the qualitative presence of the parameter.

**Conclusion:** **Data from IVACO are of equivocal quality.**

ATG 4B

**Nitrate+Nitrite** **RMDL = 0.250 mg/L**

Candidate parameter at Atlas Steels, IVACO, and LASCO. Its occurrence classification ranges from frequent high level to frequent medium level. The effluent monitoring average concentration ratio varies from 17.7 to 2.1. No QA/QA data available to evaluate the reliability of the data. The effluent monitoring average concentration ratios indicate a quantitative presence of the parameter.

**Conclusion:** **Data from Atlas Steels, IVACO, and LASCO are of equivocal quality.**

ATG 5A

**Dissolved Organic Carbon (DOC)** **RMDL = 0.500 mg/L**

Candidate parameter Atlas Steels, IVACO, and LASCO. Consistently classified as frequent high level at all three plants with effluent monitoring average concentration ratio ranging from 67.4 to 5.5. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Atlas Steels, IVACO, and LASCO are of reliable quality.**

ATG 5B

**Total Organic Carbon (TOC)** **RMDL = 5.000 mg/L**

Candidate parameter at IVACO. It is classified as frequent low level with effluent monitoring average concentration ratio of 2.0. No QA/QC data available to evaluate the reliability of the data.

**Conclusion:** **Data from IVACO are of equivocal quality.**

ATG 6

**Total Phosphorous:** **RMDL = 0.100 mg/L**

Candidate parameter at IVACO and LASCO. It is classified as frequent high level at IVACO with effluent monitoring average concentration ratio of 7.3. It is classified as frequent medium level at LASCO with effluent monitoring average

concentration ratio of 3.7. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from IVACO and LASCO are of reliable quality.**

**ATG 8**

**Total Suspended Solids** **RMDL = 5.000 mg/L**

Candidate parameter at Atlas Steels, IVACO, and LASCO. The occurrence classification of total suspended solids ranges from frequent medium level at IVACO to frequent low level at LASCO and Atlas Specialty Steel with effluent monitoring average concentration ratio ranging from 5.5 to 1.2. The high field duplicate average difference ratio at Atlas Steels (#0200) and LASCO (#0100) do not pose any field duplicate concern since the corresponding effluent monitoring average concentration ratio are higher. No other QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Atlas Steels, IVACO and LASCO are of reliable quality.**

**Volatile Suspended Solids** **RMDL = 10.000 mg/L**

Candidate parameter at Atlas Steels, IVACO, and LASCO. At IVACO, it is classified as frequent low level with effluent monitoring average concentration ratio of 0.8. At Atlas Steels, it is classified as frequent high level with effluent monitoring average concentration ratio of 21.8. At LASCO, it is classified as frequent low level with effluent monitoring average concentration ratio of 6.3. No QA/QC assessment concerns identified with the effluent monitoring data at Atlas Steels and LASCO. At IVACO, the field duplicate average difference ratio is higher than the effluent monitoring average concentration ratio posing duplicate precision concern.

**Conclusion:** **Data from Atlas Steels and LASCO are of reliable quality. Data from IVACO are of unreliable quality.**

**ATG 9**

**Aluminum** **RMDL = 0.030 mg/L**

Candidate parameter at Atlas Steels, IVACO, and LASCO. At IVACO, it is classified as frequent high level with effluent

monitoring average concentration ratio of 30.4.

At LASCO, it is classified as frequent medium level with effluent monitoring average concentration ratio of 3.3.

At Atlas Steels, its occurrence classification varies from frequent medium level to frequent low level and its effluent monitoring average concentration ratio ranges from 41.0 to 2.1.

No QA/QC assessment concerns identified with the effluent monitoring data at the three plants.

**Conclusion:** **Data from Atlas Steels, IVACO, and LASCO are of reliable quality.**

**Cadmium** **RMDL = 0.002 mg/L**

Candidate parameter at Atlas Steels and LASCO. At LASCO, it is classified as frequent low level with effluent monitoring average concentration ratio of 3.0. The field duplicate average concentration difference ratio of 4.5, which is higher than the effluent monitoring average concentration ratio, poses a field duplicate precision concern.

At Atlas Steels, it is classified as infrequent high with effluent monitoring average concentration ratio of 6.0. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Atlas Steels are of reliable quality. Data from LASCO are of unreliable quality.**

**Chromium** **RMDL = 0.020 mg/L**

Candidate parameter at Atlas Steel and IVACO. At Atlas Steels, it is classified as frequent high level with effluent monitoring average concentration ratio of 1135.7. No QA/QC assessment concerns identified with the effluent monitoring data. At IVACO, it is classified as frequent low level with effluent monitoring average concentration ratio of 0.8.

**Conclusion:** **Data from Atlas Steels are of reliable quality. Data from IVACO are of unreliable quality.**

**Cobalt** **RMDL = 0.020 mg/L**

Candidate parameter at Atlas Steels. It is classified as frequent high level with effluent monitoring average concentration ratio of 25.4. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Atlas Steels are of reliable quality.**

**Copper** **RMDL = 0.010 mg/L**

Candidate parameter at Atlas Steels, IVACO, and LASCO. At Atlas Steels, it is classified as frequent high level with effluent monitoring average concentration ratio of 129.0. At IVACO, it is classified as frequent medium level with effluent monitoring average concentration ratio of 2.8. At LASCO, it is classified as frequent low level with effluent monitoring average concentration ratio of 8.1. No QA/QC assessment concerns identified with the effluent monitoring data at all the three plants.

**Conclusion:** **Data from Atlas Steels, IVACO, and LASCO are of reliable quality.**

**Lead** **RMDL = 0.030 mg/L**

Candidate parameter at Atlas Steels, IVACO, and LASCO. At Atlas Steels, it is classified as infrequent high level with effluent monitoring average concentration ratio of 1.3. At IVACO, it is classified as frequent low level with effluent monitoring average concentration ratio of 1.2. At LASCO, its occurrence classification varies from frequent high level to frequent low level and the effluent monitoring average concentration ratio varies from 294.1 to 1.2. No QA/QC assessment concerns identified with the effluent monitoring data at all the three plants.

**Conclusion:** **Data from LASCO are of reliable quality. Data from Atlas Steels and IVACO are of unreliable quality.**

**Molybdenum** **RMDL = 0.020 mg/L**

Candidate parameter at Atlas Steels and LASCO. At Atlas Steels, it is classified as frequent high level with effluent monitoring average concentration ratio of 204.0. At LASCO, it

is classified as infrequent low level with effluent monitoring average concentration ratio of 1.1. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Atlas Steels are of reliable quality. Data from LASCO are of equivocal quality.**

**Nickel** **RMDL = 0.020 mg/L**

Candidate parameter at Atlas Steels and LASCO. At Atlas Steels, its occurrence classification varies from frequent high level to frequent low level with effluent monitoring average concentration ratio ranging from 2053.0. At LASCO, it is classified as infrequent low level with effluent monitoring average concentration ratio of 1.2. No QA/QC assessment concerns identified with the effluent monitoring data at both the plants.

**Conclusion:** **Data from Atlas Steels are of reliable quality. Data from LASCO are of unreliable quality.**

**Vanadium** **RMDL = 0.030 mg/L**

Candidate parameter at Atlas Steels. It is classified as infrequent high level with effluent monitoring average concentration ratio of 5.0. No QA/QC concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Atlas Steels are of reliable quality.**

**Zinc** **RMDL = 0.010 mg/L**

Candidate parameter at Atlas Steels, IVACO, and LASCO. Its occurrence classification ranges from frequent high level to frequent low level with effluent monitoring average concentration ratio varies from 138.9 to 2.0. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion:** **Data from Atlas Steels, LASCO, and IVACO are of reliable quality.**

ATG 10

**Antimony** **RMDL = 0.005 mg/L**

Candidate parameter at Atlas Steels. It is classified as infrequent high level with effluent monitoring average concentration ratio of 2.0. No QA/QC data available to assess the reliability of the data but the effluent monitoring average concentration ratio of 2.8 indicates a qualitative presence antimony.

**Conclusion:** **Data from Atlas Steels are of equivocal quality.**

**Arsenic** **RMDL = 0.005 mg/L**

Candidate parameter At Atlas Steels. It is classified as infrequent high level with effluent monitoring average concentration ratio of 4.0. No QA/QC data available to assess the reliability of the data but the effluent monitoring average concentration ratio of 4.0 indicates a quantitative presence of arsenic.

**Conclusion:** **Data from Atlas Steels are of equivocal quality.**

ATG 11

**Chromium (hexavalent)** **RMDL = 0.010 mg/L**

Candidate parameter at Atlas Steels and IVACO. At IVACO, it is classified as frequent high level with effluent monitoring average concentration ratio of 4.5. At Atlas Steels, it is classified as frequent medium level with effluent monitoring average concentration ratio of 13.00. No QA/QC concerns identified with the effluent monitoring data at Atlas Steels. No QA/QC data available at IVACO to assess the reliability of the effluent monitoring data.

**Conclusion:** **Data from Atlas Steels are of reliable quality. Data from IVACO are of equivocal quality.**

ATG 16

**Chloroform** **RMDL = 0.700 ug/L**

Candidate parameter at IVACO. It is classified as frequent medium level with effluent monitoring average concentration ratio of 5.1. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion: Data from IVACO are of reliable quality.**

**Methylene Chloride** **RMDL = 1.300 ug/L**

Candidate parameter at IVACO. It is classified as frequent medium level with effluent monitoring average concentration ratio of 2.3. The average spiked blank average recovery of 38 percent poses an under-recovery concern. No travelling blank data available.

**Conclusion: Data from IVACO are of unreliable quality.**

**Tetrachloroethylene** **RMDL = 1.100 ug/L**

Candidate parameter at IVACO. It is classified as frequent medium level with effluent monitoring average concentration ratio of 2.3. No travelling blank data available to assess the reliability of the effluent monitoring data.

**Conclusion: Data from IVACO are of equivocal quality.**

**Trichloroethylene** **RMDL = 1.900 ug/L**

Candidate parameter at IVACO. It is classified as frequent high level with effluent monitoring average concentration ratio of 37.5. The spiked blank average recovery of 171 percent indicates a possible over-recovery concern.

**Conclusion: Data from IVACO are of equivocal quality.**

ATG 17

**Toluene** **RMDL = 0.500 mg/L**

Candidate parameter at IVACO. It is classified as frequent low level with effluent monitoring average concentration ratio of

1.3. No travelling blank data available to assess the reliability of the effluent monitoring data.

**Conclusion: Data from IVACO are of equivocal quality.**

ATG 19

**Phenanthrene RMDL = 0.400 ug/L**

Unique candidate parameter for IVACO. Classified as frequent low level with effluent monitoring average concentration ratio of 1.4. The spiked blank average recovery of 133 percent indicates a possible over-recovery concern. The low effluent monitoring average concentration ratio of 1.4 and the over-recovery concern indicate a doubtful presence of the parameter.

**Conclusion: Data from IVACO are of unreliable quality.**

ATG 25

**Oil and Grease RMDL = 1.000 mg/L**

Candidate parameter at Atlas Steels, IVACO, and LASCO. Its occurrence classification ranges from frequent high level to infrequent low level and its effluent monitoring average concentration ratio varies from 121.5 to 1.4. No QA/QC assessment concerns identified with the effluent monitoring data at all the three plants except at Atlas Steels (#0200) where the field duplicate average difference ratio (20.4) is higher than the effluent monitoring average difference ratio of (7.9) posing a field duplicate precision concern.

**Conclusion: Data from Atlas Steels, IVACO, and LASCO are of reliable quality.**

ATG IS1

**Iron RMDL = 0.020 mg/L**

Candidate parameter at Atlas Steels, IVACO, and LASCO. Its occurrence classification ranges from frequent high level to frequent low level and its effluent monitoring average concentration ratio varies from 385.2 to 1.4. No QA/QC assessment concerns identified with the effluent monitoring data.

**Conclusion: Data from Atlas Steels, IVACO, and LASCO are of reliable quality.**

# Results of QA/QC Assessment for Non-candidate Parameters

The QA/QC assessment for the non-candidate parameters is based on the summary tables given in Appendix IV Table IV-3 and Table IV-4. The assessment focused on identifying parameters with possible false negative concerns. The parameters with possible false negative concerns are those with a spiked blank average percent recovery lower than 20. These parameters will require further investigation to evaluate the possible causes of the low spiked blank recoveries reported by the laboratories which performed the analysis. If a false negative result is confirmed after these investigations, a parameter with such result could be re-classified as a potential candidate parameter.

The non-candidate parameters with possible false negative concerns are shown in Table III-1.

**Table III-1**
**Non-candidate Parameters with False Negative Concerns**

| ATG | Parameter | Plant | Control Point |
|---|---|---|---|
| 16 | 1,1-Dichloroethylene | Algoma Steel | #0300 |
| 16 | Carbon Tetrachloride | Algoma Steel | #0700, #0300 |
| 16 | Cis-1,3-Dichloropropylene | IVACO | #0200 |
| 16 | Tetrachloroethylene | Algoma Steel | #0300, #0700 |
| 16 | Trans-1,3-Dichloropropylene | IVACO | #0200 |
| 19 | Diphenylamine | Stelco Lake Erie Works | #0100, #0400 |
| 19 | Indeno(1,2,3-cd)pyrene | IVACO | #0200 |
| 20 | 2,4-Dimethylphenol | Dofasco Inc. | #0300, #0400 |
| 23 | Hexachlorocyclopentadiene | Stelco Hilton Works | #0100 |

# APPENDIX IV

## QA/QC Assessment Summary Tables

APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Cyanide Total | ALGOMA | 0100 | FH | 252 | 84.4 | 2.8 | | | | | | 1 |
| | | ALGOMA | 0300 | FH | 9 | 6.8 | 2.8 | | | | 4.0 | | 1 |
| | | ALGOMA | 1300 | FH | 119 | 343.6 | 2.8 | | | | | | 1 |
| | | ALGOMA | 1400 | FH | 120 | 1240.0 | 2.8 | | | | 100.2 | | 1 |
| | | ALGOMA | 2000 | FH | 225 | 65.8 | 2.8 | | | | | | 1 |
| | | DOFASCO | 0100 | FH | 52 | 17.6 | 0.4 | | | | | | 1 |
| | | DOFASCO | 0400 | FH | 50 | 53.0 | 0.4 | | | | 6.2 | | 1 |
| | | DOFASCO | 0700 | FH | 157 | 8130.4 | 0.4 | | | | 416.6 | | 1 |
| | | DOFASCO | 0800 | FH | 127 | 64.8 | 0.4 | | | | | | 1 |
| | | DOFASCO | 1300 | FH | 12 | 13.4 | 0.4 | | | | | | 1 |
| | | HILTON | 0100 | FH | 72 | 11.6 | 0.6 | | | | 0.6 | | 1 |
| | | HILTON | 0200 | FH | 74 | 14.2 | 0.6 | | | | | | 1 |
| | | HILTON | 0601 | FH | 117 | 6.8 | 0.6 | | | | 1.2 | | 1 |
| | | HILTON | 0602 | FH | 6 | 6.4 | 0.6 | | | | | | 1 |
| | | HILTON | 1400 | FH | 3 | 43.4 | 0.6 | | | | | | 1 |
| | | L.ERIE | 0100 | FH | 115 | 8.0 | 1.0 | | | | 1.2 | | 1 |
| | | L.ERIE | 0400 | FH | 105 | 22.8 | 1.0 | | | | 3.8 | | 1 |
| | | ALGOMA | 1600 | FL | 10 | 2.0 | 2.8 | | | | | | 3 |
| | | HILTON | 1100 | FL | 9 | 1.4 | 0.6 | | | | | | 2 |
| | | HILTON | 1200 | FL | 2 | 4.6 | 0.6 | | | | | | 1 |
| | | L.ERIE | 0300 | FL | 3 | 1.0 | 1.0 | | | | | | 3 |
| | | L.ERIE | 0600 | FL | 4 | 2.0 | 1.0 | | | | | | 2 |
| | | ALGOMA | 0700 | FM | 264 | 5.8 | 2.8 | | | | 1.4 | | 1 |
| | | DOFASCO | 0200 | FM | 48 | 3.2 | 0.4 | | | | | | 1 |
| | | DOFASCO | 0300 | FM | 52 | 4.2 | 0.4 | | | | 0.4 | | 1 |
| | | DOFASCO | 1200 | FM | 12 | 7.2 | 0.4 | | | | | | 1 |
| | | DOFASCO | 1400 | FM | 12 | 6.8 | 0.4 | | | | | | 1 |
| | | HILTON | 0400 | FM | 39 | 5.0 | 0.6 | | | | | | 1 |

NOTE: A glossary for terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Cyanide Total | HILTON | 1300 | FM | 23 | 2.8 | 0.6 | | | | | | 1 |
| | | ALGOMA | 1200 | IM | 92 | 2.2 | 2.8 | | | | | | 3 |
| 4a | Ammonia plus Ammonium | ALGOMA | 0700 | FH | 262 | 19.5 | 2.8 | | | | 3.3 | | 1 |
| | | ALGOMA | 1300 | FH | 117 | 9.7 | 2.8 | | | | | | 1 |
| | | ALGOMA | 1400 | FH | 120 | 3911.0 | 2.8 | | | | 302.2 | | 1 |
| | | ALGOMA | 2000 | FH | 223 | 272.7 | 2.8 | | | | | | 1 |
| | | DOFASCO | 0400 | FH | 50 | 6.9 | 0.8 | | | | 0.4 | | 1 |
| | | DOFASCO | 0700 | FH | 156 | 315.9 | 0.8 | | | | 13.7 | | 1 |
| | | DOFASCO | 0800 | FH | 127 | 71.1 | 0.8 | | | | | | 1 |
| | | DOFASCO | 1300 | FH | 12 | 26.7 | 0.8 | | | | | | 1 |
| | | HILTON | 1400 | FH | 3 | 5.4 | 0.4 | | | | | | 1 |
| | | L.ERIE | 0300 | FH | 3 | 5.6 | 0.2 | | | | | | 1 |
| | | ALGOMA | 0300 | FL | 9 | 2.2 | 2.8 | | | | | | 3 |
| | | ALGOMA | 0600 | FL | 8 | 1.9 | 2.8 | | | | | | 3 |
| | | ALGOMA | 1600 | FL | 9 | 1.7 | 2.8 | | | | | | 3 |
| | | DOFASCO | 0200 | FL | 48 | 1.4 | 0.8 | | | | | | 2 |
| | | DOFASCO | 1400 | FL | 12 | 2.4 | 0.8 | | | | | | 2 |
| | | HILTON | 1200 | FL | 2 | 1.9 | 0.4 | | | | | | 2 |
| | | HILTON | 1300 | FL | 23 | 1.5 | 0.4 | | | | | | 2 |
| | | ALGOMA | 0100 | FM | 44 | 5.2 | 2.8 | | | | | | 1 |
| | | ALGOMA | 1200 | FM | 91 | 3.6 | 2.8 | | | | | | 2 |
| | | DOFASCO | 0100 | FM | 52 | 3.4 | 0.8 | | | | | | 1 |
| | | DOFASCO | 0300 | FM | 52 | 3.4 | 0.8 | | | | | | 1 |
| | | DOFASCO | 1200 | FM | 12 | 4.7 | 0.8 | | | | | | 1 |
| | | HILTON | 0100 | FM | 73 | 3.5 | 0.4 | | | | | | 1 |
| | | HILTON | 0200 | FM | 74 | 3.5 | 0.4 | | | | | | 1 |
| | | HILTON | 0400 | FM | 39 | 2.7 | 0.4 | | | | | | 1 |
| | | HILTON | 0601 | FM | 116 | 2.6 | 0.4 | | | | 0.0 | | 1 |

APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4a | Ammonia plus Ammonium | HILTON | 0602 | FM | 6 | 3.5 | 0.4 | | | | | | 1 |
| | | ALGOMA | 1500 | IM | 8 | 3.8 | 2.8 | | | | | | 2 |
| 4a | Total Kjeldahl Nitrogen | DOFASCO | 0200 | FL | 4 | 1.9 | | | | | | | 2 |
| | | DOFASCO | 0300 | FL | 4 | 2.2 | | | | | | | 2 |
| | | HILTON | 0200 | FL | 2 | 1.3 | | | | | | | 2 |
| | | HILTON | 0400 | FL | 3 | 2.2 | | | | | | | 2 |
| | | HILTON | 0601 | FL | 3 | 1.8 | | | | | | | 2 |
| | | HILTON | 0602 | FL | 3 | 1.7 | | | | | | | 2 |
| | | HILTON | 1300 | FL | 2 | 2.0 | | | | | | | 2 |
| | | L.ERIE | 0100 | FL | 3 | 1.1 | | | | | | | 2 |
| | | DOFASCO | 0100 | FM | 4 | 3.2 | | | | | | | 2 |
| | | DOFASCO | 0400 | FM | 4 | 4.2 | | | | | | | 2 |
| | | DOFASCO | 1200 | FM | 4 | 3.2 | | | | | | | 2 |
| | | HILTON | 0100 | FM | 3 | 2.5 | | | | | | | 2 |
| 4b | Nitrate+Nitrite | DOFASCO | 0100 | FH | 4 | 8.4 | | | | | | | 2 |
| | | DOFASCO | 0200 | FH | 4 | 7.0 | | | | | | | 2 |
| | | DOFASCO | 0300 | FH | 4 | 7.4 | | | | | | | 2 |
| | | DOFASCO | 0400 | FH | 4 | 8.4 | | | | | | | 2 |
| | | DOFASCO | 1200 | FH | 4 | 7.3 | | | | | | | 2 |
| | | HILTON | 0100 | FH | 3 | 12.0 | | | | | | | 2 |
| | | HILTON | 0200 | FH | 2 | 8.2 | | | | | | | 2 |
| | | HILTON | 0400 | FH | 3 | 9.2 | | | | | | | 2 |
| | | HILTON | 0601 | FH | 3 | 9.1 | | | | | | | 2 |
| | | HILTON | 0602 | FH | 3 | 8.7 | | | | | | | 2 |
| | | HILTON | 1200 | FH | 2 | 7.2 | | | | | | | 2 |
| | | HILTON | 1300 | FH | 2 | 9.2 | | | | | | | 2 |
| | | L.ERIE | 0100 | FH | 3 | 10.5 | | | | | | | 2 |
| | | ALGOMA | 0100 | FL | 5 | 1.6 | | | | | | | 2 |

APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4b | Nitrate+Nitrite | ALGOMA | 0200 | FL | 2 | 78.4 | | | | | | | 2 |
| | | ALGOMA | 0300 | FL | 2 | 1.3 | | | | | | | 2 |
| | | ALGOMA | 0400 | FL | 5 | 1.3 | | | | | | | 2 |
| | | ALGOMA | 0500 | FL | 2 | 1.3 | | | | | | | 2 |
| | | ALGOMA | 0800 | FL | 2 | 1.4 | | | | | | | 2 |
| | | ALGOMA | 1000 | FL | 2 | 1.4 | | | | | | | 2 |
| | | ALGOMA | 1600 | FL | 2 | 1.5 | | | | | | | 2 |
| | | HILTON | 1100 | FL | 3 | 1.2 | | | | | | | 2 |
| | | ALGOMA | 0700 | FM | 5 | 3.4 | | | | | | | 2 |
| 5a | DOC | ALGOMA | 0400 | FH | 36 | 6.6 | 0.9 | | | | | | 1 |
| | | ALGOMA | 0700 | FH | 106 | 5.9 | 0.9 | | | | 0.7 | | 1 |
| | | ALGOMA | 1800 | FH | 35 | 13.9 | 0.9 | | | | | | 1 |
| | | DOFASCO | 0100 | FH | 114 | 11.0 | 2.3 | | | | | | 1 |
| | | DOFASCO | 0200 | FH | 102 | 9.5 | 2.3 | | | | | | 1 |
| | | DOFASCO | 0300 | FH | 9 | 10.0 | 2.3 | | | | | | 1 |
| | | DOFASCO | 0400 | FH | 109 | 9.9 | 2.3 | | | | 0.5 | | 1 |
| | | DOFASCO | 1000 | FH | 116 | 111.0 | 2.3 | | | | | | 1 |
| | | DOFASCO | 1200 | FH | 9 | 9.1 | 2.3 | | | | | | 1 |
| | | HILTON | 0100 | FH | 57 | 8.7 | 3.9 | | | | 0.4 | | 1 |
| | | HILTON | 0200 | FH | 58 | 8.4 | 3.9 | | | | | | 1 |
| | | HILTON | 0400 | FH | 117 | 10.1 | 3.9 | | | | | | 1 |
| | | HILTON | 0601 | FH | 117 | 10.2 | 3.9 | | | | 1.4 | | 1 |
| | | HILTON | 0602 | FH | 109 | 10.5 | 3.9 | | | | | | 1 |
| | | HILTON | 1200 | FH | 21 | 9.4 | 3.9 | | | | | | 1 |
| | | HILTON | 1300 | FH | 4 | 7.9 | 3.9 | | | | | | 1 |
| | | L.ERIE | 0100 | FH | 116 | 9.4 | 1.8 | | | | 0.4 | | 1 |
| | | ALGOMA | 0100 | FM | 100 | 3.9 | 0.9 | | | | | | 1 |
| | | ALGOMA | 0200 | FM | 9 | 3.8 | 0.9 | | | | | | 1 |

APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5a | DOC | ALGOMA | 0300 | FM | 9 | 5.8 | 0.9 | | | | 0.2 | | 1 |
| | | ALGOMA | 0500 | FM | 9 | 3.7 | 0.9 | | | | | | 1 |
| | | ALGOMA | 0800 | FM | 4 | 4.0 | 0.9 | | | | | | 1 |
| | | ALGOMA | 1000 | FM | 9 | 3.6 | 0.9 | | | | | | 1 |
| | | ALGOMA | 1500 | FM | 9 | 3.5 | 0.9 | | | | | | 1 |
| | | ALGOMA | 1600 | FM | 9 | 3.8 | 0.9 | | | | | | 1 |
| | | HILTON | 1100 | FM | 39 | 8.0 | 3.9 | | | | | | 1 |
| 5b | TOC | ALGOMA | 1800 | FL | 4 | 1.0 | 0.1 | | | | | | 2 |
| | | HILTON | 0100 | FL | 3 | 1.3 | | | | | | | 2 |
| 6 | Total Phosphorus | DOFASCO | 0700 | FH | 51 | 34.7 | 0.2 | | | | 0.6 | | 1 |
| | | ALGOMA | 0700 | FL | 41 | 14.5 | 0.1 | | | | 0.3 | | 1 |
| | | L.ERIE | 0100 | FL | 38 | 1.4 | 1.0 | | | | 0.2 | | 2 |
| | | L.ERIE | 0200 | FL | 8 | 1.8 | 1.0 | | | | | | 2 |
| | | L.ERIE | 0400 | FL | 34 | 2.2 | 1.0 | | | | 0.3 | | 2 |
| | | ALGOMA | 1800 | IL | 36 | 1.3 | 0.1 | | | | | | 2 |
| | | DOFASCO | 0400 | IL | 50 | 0.8 | 0.2 | | | | 0.1 | | 3 |
| | | HILTON | 0200 | IM | 23 | 1.1 | 0.3 | | | | | | 2 |
| 8 | Total Suspended Solids | ALGOMA | 1200 | FH | 85 | 15.9 | | | | | 0.4 | | 1 |
| | | ALGOMA | 1300 | FH | 112 | 6.7 | | | | | 0.4 | | 1 |
| | | ALGOMA | 2000 | FH | 221 | 28.4 | | | | | | | 1 |
| | | DOFASCO | 0700 | FH | 157 | 23.9 | | | | | 2.0 | | 1 |
| | | DOFASCO | 0800 | FH | 127 | 7.9 | | | | | | | 1 |
| | | DOFASCO | 0900 | FH | 157 | 10.8 | | | | | | | 1 |
| | | DOFASCO | 1000 | FH | 157 | 97.3 | | | | | | | 1 |
| | | DOFASCO | 1300 | FH | 12 | 82.2 | | | | | | | 1 |
| | | DOFASCO | 1400 | FH | 12 | 37.8 | | | | | | | 1 |
| | | HILTON | 1400 | FH | 3 | 617.5 | | | | | | | 1 |
| | | ALGOMA | 0100 | FL | 247 | 1.9 | | | | | 0.5 | | 2 |

NOTE: A glossary for terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS
## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | Total Suspended Solids | ALGOMA | 0200 | FL | 251 | 1.1 | | | | | 0.1 | | 2 |
| | | ALGOMA | 0400 | FL | 257 | 1.6 | | | | | 0.3 | | 2 |
| | | DOFASCO | 0100 | FL | 360 | 2.1 | | | | | | | 1 |
| | | DOFASCO | 0300 | FL | 52 | 1.6 | | | | | | | 2 |
| | | DOFASCO | 1200 | FL | 12 | 1.4 | | | | | | | 2 |
| | | HILTON | 0100 | FL | 140 | 1.6 | | | | | | | 2 |
| | | HILTON | 0200 | FL | 132 | 1.7 | | | | | | | 2 |
| | | HILTON | 0400 | FL | 266 | 1.4 | | | | | | | 2 |
| | | HILTON | 0601 | FL | 271 | 1.4 | | | | | 0.8 | | 2 |
| | | HILTON | 0602 | FL | 238 | 1.6 | | | | | | | 2 |
| | | L.ERIE | 0100 | FL | 268 | 1.5 | 0.9 | | | | 0.0 | | 2 |
| | | L.ERIE | 0300 | FL | 3 | 1.2 | 0.9 | | | | | | 3 |
| | | ALGOMA | 0700 | FM | 262 | 2.7 | | | | | 0.3 | | 2 |
| | | ALGOMA | 1400 | FM | 115 | 6.3 | | | | | 0.2 | | 1 |
| | | DOFASCO | 0200 | FM | 331 | 5.1 | | | | | | | 1 |
| | | DOFASCO | 0400 | FM | 351 | 5.9 | | | | | 2.7 | | 1 |
| | | DOFASCO | 1100 | FM | 157 | 6.3 | | | | | | | 1 |
| | | HILTON | 1200 | FM | 145 | 2.8 | | | | | | | 1 |
| | | HILTON | 1300 | FM | 23 | 3.5 | | | | | | | 1 |
| | | L.ERIE | 0200 | FM | 4 | 4.9 | 0.9 | | | | | | 1 |
| | | L.ERIE | 0500 | FM | 9 | 5.6 | 0.9 | | | | | | 1 |
| | | ALGOMA | 0300 | IL | 265 | 2.9 | | | | | 0.3 | | 1 |
| | | ALGOMA | 1800 | IL | 260 | 0.7 | | | | | 0.1 | | 3 |
| | | HILTON | 1100 | IL | 268 | 1.1 | | | | | | | 2 |
| 8 | Volatile Suspended Solids | DOFASCO | 1000 | FH | 157 | 26.4 | | | | | | | 1 |
| | | DOFASCO | 1300 | FH | 12 | 29.6 | | | | | | | 1 |
| | | DOFASCO | 1400 | FL | 12 | 3.6 | | | | | | | 1 |
| | | DOFASCO | 0700 | FM | 157 | 9.5 | | | | | 0.7 | | 1 |

NOTE: A glossary for terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | Volatile Suspended Solids | ALGOMA | 1400 | IL | 112 | 1.7 | | | | | 0.1 | | 2 |
| | | DOFASCO | 0800 | IL | 127 | 0.9 | | | | | | | 3 |
| | | DOFASCO | 0900 | IL | 157 | 0.6 | | | | | | | 3 |
| | | DOFASCO | 1100 | IL | 157 | 0.8 | | | | | | | 3 |
| 9 | Aluminum | DOFASCO | 0100 | FH | 12 | 8.0 | 3.7 | | | | | | 1 |
| | | DOFASCO | 0200 | FH | 11 | 20.2 | 3.7 | | | | | | 1 |
| | | DOFASCO | 0400 | FH | 12 | 10.4 | 3.7 | | | | 3.0 | | 1 |
| | | DOFASCO | 1200 | FH | 4 | 6.5 | 3.7 | | | | | | 1 |
| | | HILTON | 0400 | FH | 9 | 6.6 | 1.1 | | | | | | 1 |
| | | HILTON | 0601 | FH | 9 | 7.9 | 1.1 | | | | 4.0 | | 1 |
| | | HILTON | 0602 | FH | 8 | 8.0 | 1.1 | | | | | | 1 |
| | | HILTON | 1100 | FH | 9 | 8.9 | 1.1 | | | | | | 1 |
| | | HILTON | 1200 | FH | 6 | 14.3 | 1.1 | | | | | | 1 |
| | | L.ERIE | 0100 | FH | 9 | 11.7 | 2.5 | | | | 0.4 | | 1 |
| | | ALGOMA | 0400 | FL | 9 | 1.6 | 0.2 | | | | | | 2 |
| | | ALGOMA | 0800 | FL | 2 | 1.3 | 0.2 | | | | | | 2 |
| | | ALGOMA | 0100 | FM | 9 | 6.6 | 0.2 | | | | | | 1 |
| | | ALGOMA | 0700 | FM | 11 | 3.2 | 0.2 | | | | 0.3 | | 1 |
| | | DOFASCO | 0300 | FM | 4 | 6.3 | 3.7 | | | | | | 1 |
| | | HILTON | 0100 | FM | 5 | 6.2 | 1.1 | | | | | | 1 |
| | | HILTON | 0200 | FM | 5 | 10.7 | 1.1 | | | | | | 1 |
| | | HILTON | 1300 | FM | 2 | 14.8 | 1.1 | | | | | | 1 |
| 9 | Cadmium | HILTON | 0200 | FL | 5 | 1.5 | 1.0 | | | | | | 2 |
| | | HILTON | 0601 | FL | 9 | 1.5 | 1.0 | | | | | | 2 |
| | | L.ERIE | 0100 | FL | 37 | 4.0 | 1.0 | | | | | | 1 |
| | | DOFASCO | 0100 | IL | 12 | 1.0 | 1.0 | | | | | | 3 |
| | | HILTON | 0602 | IL | 8 | 1.0 | 1.0 | | | | | | 3 |
| 9 | Chromium | DOFASCO | 1000 | FH | 157 | 39.8 | 0.5 | | | | | | 1 |

NOTE: A glossary for terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | Chromium | DOFASCO | 0100 | FL | 52 | 1.3 | 0.5 | | | | | | 2 |
| | | DOFASCO | 0200 | FL | 48 | 1.3 | 0.5 | | | | | | 2 |
| | | DOFASCO | 1400 | FL | 12 | 2.4 | 0.5 | | | | | | 1 |
| | | L.ERIE | 0300 | FM | 3 | 3.1 | 0.3 | | | | | | 1 |
| | | DOFASCO | 0400 | IH | 51 | 0.9 | 0.5 | | | | 2.3 | | 3 |
| | | DOFASCO | 0300 | IL | 52 | 0.7 | 0.5 | | | | | | 3 |
| 9 | Copper | DOFASCO | 0100 | FL | 12 | 2.8 | 1.0 | | | | | | 2 |
| | | DOFASCO | 0200 | FL | 11 | 2.8 | 1.0 | | | | | | 2 |
| | | DOFASCO | 0300 | FL | 4 | 1.8 | 1.0 | | | | | | 2 |
| | | DOFASCO | 0400 | FL | 12 | 3.0 | 1.0 | | | | 1.0 | | 2 |
| | | DOFASCO | 1200 | FL | 4 | 1.7 | 1.0 | | | | | | 2 |
| | | HILTON | 0100 | FL | 5 | 1.4 | 5.0 | | | | | | 3 |
| | | HILTON | 0602 | FL | 8 | 3.2 | 5.0 | | | | | | 3 |
| | | HILTON | 1100 | FL | 9 | 2.9 | 5.0 | | | | | | 3 |
| | | L.ERIE | 0100 | FL | 40 | 1.2 | 4.8 | | | | 0.6 | | 3 |
| | | HILTON | 0400 | FM | 9 | 3.0 | 5.0 | | | | | | 3 |
| | | HILTON | 0601 | FM | 9 | 4.0 | 5.0 | | | | 0.5 | | 3 |
| | | HILTON | 1200 | FM | 6 | 3.7 | 5.0 | | | | | | 3 |
| | | HILTON | 1300 | FM | 2 | 5.0 | 5.0 | | | | | | 3 |
| 9 | Lead | ALGOMA | 0100 | FL | 9 | 1.0 | 0.4 | | | | | | 2 |
| | | DOFASCO | 1400 | FL | 12 | 2.3 | 0.7 | | | | | | 2 |
| | | HILTON | 1400 | FL | 3 | 77.1 | 0.2 | | | | | | 1 |
| | | ALGOMA | 1300 | FM | 85 | 4.5 | 0.4 | | | | | | 1 |
| | | DOFASCO | 1000 | FM | 157 | 2.9 | 0.7 | | | | | | 1 |
| | | DOFASCO | 0900 | IL | 156 | 1.6 | 0.7 | | | | | | 2 |
| | | DOFASCO | 1100 | IL | 157 | 1.0 | 0.7 | | | | | | 3 |
| 9 | Molybdenum | ALGOMA | 1800 | FL | 10 | 2.9 | 1.0 | | | | | | 2 |
| | | DOFASCO | 0100 | FL | 12 | 1.1 | 1.0 | | | | | | 3 |

NOTE: A glossary for terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | Molybdenum | DOFASCO | 0200 | FL | 11 | 1.3 | 1.0 | | | | | | 3 |
| | | DOFASCO | 0400 | FL | 12 | 1.2 | 1.0 | | | | | | 3 |
| 9 | Nickel | HILTON | 0400 | FL | 9 | 1.1 | 0.5 | | | | | | 3 |
| | | HILTON | 0601 | FL | 9 | 1.2 | 0.5 | | | | | | 3 |
| | | HILTON | 0602 | IL | 8 | 0.9 | 0.5 | | | | | | 3 |
| 9 | Thallium | DOFASCO | 0400 | FL | 12 | 0.9 | 1.0 | | | | | | 3 |
| | | DOFASCO | 0100 | IL | 12 | 0.8 | 1.0 | | | | | | 3 |
| | | DOFASCO | 0200 | IL | 11 | 2.0 | 1.0 | | | | | | 2 |
| 9 | Vanadium | HILTON | 0200 | FL | 5 | 2.2 | 0.1 | | | | | | 1 |
| | | HILTON | 0601 | FL | 9 | 1.7 | 0.1 | | | | 1.5 | | 2 |
| | | HILTON | 0602 | FL | 8 | 1.8 | 0.1 | | | | | | 2 |
| | | HILTON | 1100 | FL | 9 | 1.8 | 0.1 | | | | | | 2 |
| | | HILTON | 1200 | FL | 6 | 2.2 | 0.1 | | | | | | 1 |
| | | HILTON | 0100 | FM | 5 | 3.6 | 0.1 | | | | | | 1 |
| | | HILTON | 0400 | FM | 9 | 2.5 | 0.1 | | | | | | 1 |
| 9 | Zinc | ALGOMA | 0100 | FH | 245 | 28.1 | 0.4 | | | | | | 1 |
| | | ALGOMA | 1300 | FH | 115 | 79.4 | 0.4 | | | | | | 1 |
| | | DOFASCO | 0400 | FH | 51 | 15.0 | 1.0 | | | | 2.0 | | 1 |
| | | DOFASCO | 0800 | FH | 127 | 50.6 | 1.0 | | | | | | 1 |
| | | DOFASCO | 0900 | FH | 156 | 19.6 | 1.0 | | | | | | 1 |
| | | DOFASCO | 1000 | FH | 157 | 15.1 | 1.0 | | | | | | 1 |
| | | DOFASCO | 1400 | FH | 12 | 151.5 | 1.0 | | | | | | 1 |
| | | HILTON | 1400 | FH | 3 | 604.4 | 1.4 | | | | | | 1 |
| | | L.ERIE | 0100 | FH | 39 | 9.9 | 1.7 | | | | 2.0 | | 1 |
| | | ALGOMA | 0400 | FL | 116 | 2.0 | 0.4 | | | | | | 1 |
| | | ALGOMA | 0500 | FL | 8 | 1.8 | 0.4 | | | | | | 2 |
| | | ALGOMA | 0700 | FL | 11 | 1.2 | 0.4 | | | | 0.2 | | 2 |
| | | ALGOMA | 0800 | FL | 4 | 1.3 | 0.4 | | | | | | 2 |

NOTE: A glossary for terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | Zinc | ALGOMA | 1200 | FL | 90 | 3.7 | 0.4 | | | | | | 1 |
| | | ALGOMA | 1500 | FL | 10 | 1.2 | 0.4 | | | | | | 2 |
| | | ALGOMA | 1800 | FL | 117 | 2.7 | 0.4 | | | | | | 1 |
| | | ALGOMA | 2000 | FL | 220 | 8.4 | 0.4 | | | | | | 1 |
| | | DOFASCO | 0100 | FL | 52 | 3.1 | 1.0 | | | | | | 1 |
| | | DOFASCO | 1100 | FL | 157 | 3.0 | 1.0 | | | | | | 1 |
| | | DOFASCO | 1200 | FL | 12 | 3.0 | 1.0 | | | | | | 1 |
| | | HILTON | 1100 | FL | 117 | 2.9 | 1.4 | | | | | | 1 |
| | | L.ERIE | 0500 | FL | 9 | 3.2 | 1.7 | | | | | | 2 |
| | | ALGOMA | 0600 | FM | 8 | 2.1 | 0.4 | | | | | | 2 |
| | | DOFASCO | 0200 | FM | 48 | 3.8 | 1.0 | | | | | | 1 |
| | | DOFASCO | 0300 | FM | 52 | 4.7 | 1.0 | | | | 1.0 | | 1 |
| | | DOFASCO | 1300 | FM | 12 | 18.7 | 1.0 | | | | | | 1 |
| | | HILTON | 0100 | FM | 73 | 5.5 | 1.4 | | | | | | 1 |
| | | HILTON | 0200 | FM | 74 | 6.1 | 1.4 | | | | | | 1 |
| | | HILTON | 0400 | FM | 117 | 4.3 | 1.4 | | | | | | 1 |
| | | HILTON | 0601 | FM | 117 | 5.2 | 1.4 | | | | 7.2 | | 2 |
| | | HILTON | 0602 | FM | 111 | 3.9 | 1.4 | | | | | | 1 |
| | | HILTON | 1200 | FM | 66 | 4.5 | 1.4 | | | | | | 1 |
| | | HILTON | 1300 | FM | 22 | 8.7 | 1.4 | | | | | | 1 |
| | | L.ERIE | 0400 | FM | 103 | 6.3 | 1.7 | | | | 1.0 | | 1 |
| | | ALGOMA | 0200 | IL | 8 | 1.0 | 0.4 | | | | | | 3 |
| | | ALGOMA | 1600 | IL | 10 | 0.9 | 0.4 | | | | | | 3 |
| | | ALGOMA | 0300 | IM | 8 | 1.3 | 0.4 | | | | 0.2 | | 2 |
| 10 | Arsenic | ALGOMA | 0100 | FL | 8 | 1.2 | | | | | | | 2 |
| | | ALGOMA | 1800 | FL | 7 | 1.0 | | | | | | | 3 |
| 10 | Selenium | ALGOMA | 0700 | FL | 11 | 1.4 | | | | | 0.2 | | 2 |
| | | DOFASCO | 0400 | FL | 10 | 1.2 | 0.6 | | | | 0.2 | | 2 |

NOTE: A glossary for terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | Selenium | L.ERIE | 0100 | FM | 9 | 3.4 | 0.4 | | | | 0.4 | | 1 |
| 11 | Chromium (hexavalent) | DOFASCO | 0100 | FM | 4 | 2.3 | | | | | | | 2 |
| 12 | Mercury | L.ERIE | 0100 | FM | 9 | 4.8 | 0.7 | | | | 0.3 | | 1 |
| 14 | Phenolics (4AAP) | ALGOMA | 0700 | FH | 262 | 10.3 | 3.2 | | | | 1.6 | | 1 |
| | | ALGOMA | 1200 | FH | 91 | 33.8 | 3.2 | | | | | | 1 |
| | | ALGOMA | 1300 | FH | 117 | 30.5 | 3.2 | | | | | | 1 |
| | | ALGOMA | 1400 | FH | 120 | 6426.0 | 3.2 | | | | 164.4 | | 1 |
| | | ALGOMA | 1600 | FH | 9 | 19.7 | 3.2 | | | | | | 1 |
| | | ALGOMA | 2000 | FH | 223 | 630.3 | 3.2 | | | | | | 1 |
| | | DOFASCO | 0100 | FH | 51 | 12.7 | 0.7 | | | | | | 1 |
| | | DOFASCO | 0200 | FH | 47 | 11.4 | 0.7 | | | | | | 1 |
| | | DOFASCO | 0300 | FH | 51 | 12.5 | 0.7 | | | | 1.0 | | 1 |
| | | DOFASCO | 0400 | FH | 49 | 25.2 | 0.7 | | | | 4.5 | | 1 |
| | | DOFASCO | 0700 | FH | 156 | 1198.7 | 0.7 | | | | 94.3 | | 1 |
| | | DOFASCO | 0800 | FH | 126 | 76.2 | 0.7 | | | | | | 1 |
| | | DOFASCO | 1200 | FH | 11 | 9.9 | 0.7 | | | | | | 1 |
| | | DOFASCO | 1300 | FH | 12 | 218.3 | 0.7 | | | | | | 1 |
| | | DOFASCO | 1400 | FH | 12 | 20.3 | 0.7 | | | | | | 1 |
| | | HILTON | 0601 | FH | 117 | 8.0 | 1.2 | | | | 2.2 | | 1 |
| | | HILTON | 1400 | FH | 3 | 44.7 | 1.2 | | | | | | 1 |
| | | L.ERIE | 0300 | FH | 3 | 20.3 | 0.8 | | | | | | 1 |
| | | ALGOMA | 1500 | FL | 8 | 2.2 | 3.2 | | | | | | 3 |
| | | ALGOMA | 1800 | FL | 9 | 2.2 | 3.2 | | | | | | 3 |
| | | HILTON | 1100 | FL | 38 | 2.1 | 1.2 | | | | | | 2 |
| | | HILTON | 1200 | FL | 21 | 1.9 | 1.2 | | | | | | 2 |
| | | L.ERIE | 0400 | FL | 104 | 1.2 | 0.8 | | | | 0.1 | | 2 |
| | | ALGOMA | 0100 | FM | 246 | 10.5 | 3.2 | | | | | | 1 |
| | | ALGOMA | 0200 | FM | 9 | 2.6 | 3.2 | | | | | | 3 |

NOTE: A glossary for terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | Phenolics (4AAP) | ALGOMA | 0300 | FM | 9 | 7.9 | 3.2 | | | | 0.5 | | 1 |
| | | ALGOMA | 0400 | FM | 9 | 3.4 | 3.2 | | | | | | 3 |
| | | ALGOMA | 0500 | FM | 9 | 2.3 | 3.2 | | | | | | 3 |
| | | ALGOMA | 0600 | FM | 8 | 3.6 | 3.2 | | | | | | 3 |
| | | HILTON | 0100 | FM | 72 | 9.1 | 1.2 | | | | 10.5 | | 2 |
| | | HILTON | 0200 | FM | 74 | 4.9 | 1.2 | | | | | | 1 |
| | | HILTON | 0400 | FM | 39 | 3.7 | 1.2 | | | | | | 1 |
| | | HILTON | 1300 | FM | 23 | 4.0 | 1.2 | | | | | | 1 |
| | | L.ERIE | 0100 | IL | 115 | 0.9 | 0.8 | | | | 0.1 | | 3 |
| 15 | Sulphide | L.ERIE | 0300 | FH | 3 | 746.0 | | | | | | | 2 |
| | | ALGOMA | 0700 | FL | 262 | 2.4 | 1.1 | | | | 0.2 | | 2 |
| | | DOFASCO | 0400 | FL | 4 | 3.6 | | | | | | | 2 |
| | | DOFASCO | 1200 | FL | 3 | 1.9 | | | | | | | 2 |
| | | HILTON | 0100 | FL | 3 | 1.3 | | | | | | | 2 |
| | | HILTON | 0400 | FL | 3 | 1.0 | | | | | | | 3 |
| | | HILTON | 0602 | FM | 3 | 19.5 | | | | | | | 2 |
| 16 | Bromoform | L.ERIE | 0100 | FH | 9 | 9.1 | 0.1 | 105 | 105 | 105 | 0.8 | | 1 |
| 16 | Chloroform | HILTON | 1100 | FL | 9 | 1.2 | 0.6 | 120 | 120 | 120 | | 0.8 | 2 |
| | | ALGOMA | 1800 | FM | 9 | 6.1 | 1.0 | 39 | 39 | 39 | | 2.5 | 2 |
| | | L.ERIE | 0100 | FM | 9 | 4.3 | 5.4 | 95 | 95 | 95 | 0.4 | 1.8 | 3 |
| 16 | Dibromochloromethane | L.ERIE | 0100 | FH | 9 | 22.0 | 0.7 | 110 | 110 | 110 | 2.0 | 0.1 | 1 |
| 17 | Benzene | ALGOMA | 1400 | FH | 118 | 3333.0 | 1.1 | 5 | 28 | 79 | 472.8 | | 1 |
| | | HILTON | 0602 | FH | 3 | 10.5 | 0.7 | 85 | 101 | 115 | | 2.5 | 1 |
| | | DOFASCO | 0700 | FL | 157 | 70.2 | 0.4 | 70 | 92 | 105 | 2.7 | 2.4 | 1 |
| | | DOFASCO | 1300 | FM | 13 | 5.1 | 0.4 | 70 | 92 | 105 | | 2.1 | 1 |
| | | ALGOMA | 2000 | IH | 218 | 57.0 | 1.1 | 5 | 28 | 79 | | | 1 |
| | | HILTON | 0200 | IH | 54 | 3.0 | 0.7 | 85 | 101 | 115 | | 3.4 | 2 |
| | | HILTON | 0601 | IH | 117 | 8.1 | 0.7 | 85 | 101 | 115 | 3.4 | 2.4 | 1 |

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APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | Styrene | DOFASCO | 0700 | FL | 12 | 2.4 | 0.8 | 95 | 99 | 105 | 0.1 | 0.1 | 1 |
| 17 | Toluene | ALGOMA | 1400 | FH | 6 | 1880.7 | 1.0 | 35 | 35 | 35 | | | 1 |
| | | HILTON | 0602 | FM | 3 | 4.8 | 0.8 | 90 | 90 | 90 | | 4.9 | 1 |
| 17 | m–Xylene and p.–Xylene | ALGOMA | 1400 | FL | 6 | 26.1 | 0.9 | 100 | 100 | 100 | | | 1 |
| | | HILTON | 0602 | FL | 3 | 1.8 | 0.5 | 100 | 100 | 100 | | | 2 |
| | | DOFASCO | 0700 | FM | 12 | 3.0 | 0.5 | 100 | 103 | 105 | 0.9 | 0.7 | 1 |
| 17 | o–Xylene | ALGOMA | 1400 | FL | 6 | 30.0 | 1.0 | 133 | 133 | 133 | | | 1 |
| | | DOFASCO | 0700 | FL | 12 | 2.0 | 0.8 | 100 | 103 | 105 | 0.3 | 0.1 | 2 |
| 19 | 1–Chloronaphthalene | DOFASCO | 0700 | FL | 12 | 1.4 | 0.3 | 60 | 80 | 110 | | | 2 |
| 19 | 1–Methylnaphthalene | DOFASCO | 0700 | FL | 12 | 3.0 | 0.7 | 60 | 75 | 95 | | | 1 |
| 19 | 2,4–Dinitrotoluene | DOFASCO | 0700 | FL | 12 | 2.7 | 0.6 | 60 | 80 | 95 | | | 1 |
| 19 | 2,6–Dinitrotoluene | DOFASCO | 0700 | FL | 12 | 3.7 | 0.9 | 65 | 83 | 95 | | | 1 |
| 19 | 2–Chloronaphthalene | DOFASCO | 0700 | FL | 12 | 2.2 | 0.5 | 55 | 80 | 100 | | | 2 |
| 19 | 2–Methylnaphthalene | DOFASCO | 0700 | FL | 12 | 3.0 | 0.7 | 60 | 78 | 100 | | | 1 |
| 19 | 4–Bromophenyl Phenyl Ether | DOFASCO | 0700 | FL | 12 | 4.3 | 1.0 | 65 | 80 | 105 | | | 1 |
| 19 | 4–Chlorophenyl Phenyl Ether | DOFASCO | 0700 | FL | 12 | 4.3 | 1.0 | 65 | 82 | 105 | | | 1 |
| 19 | 5–Nitro, Acenaphthene | DOFASCO | 0700 | FL | 12 | 1.8 | 0.4 | 55 | 85 | 100 | | | 2 |
| 19 | Acenaphthene | DOFASCO | 0700 | FL | 12 | 2.3 | 0.5 | 65 | 79 | 100 | | | 2 |
| 19 | Acenaphthylene | DOFASCO | 0700 | FH | 12 | 13.7 | 0.3 | 65 | 77 | 100 | 6.4 | | 1 |
| | | ALGOMA | 1400 | FL | 7 | 222.6 | 0.5 | 72 | 72 | 72 | | | 1 |
| 19 | Anthracene | ALGOMA | 1400 | FL | 7 | 93.1 | 0.7 | 82 | 82 | 82 | | | 1 |
| | | DOFASCO | 0700 | FL | 12 | 3.4 | 0.2 | 43 | 60 | 90 | 2.7 | | 2 |
| 19 | Benzo(a)anthracene | ALGOMA | 1400 | FH | 7 | 215.9 | 0.6 | 81 | 81 | 81 | | | 1 |
| | | DOFASCO | 0700 | FH | 12 | 102.5 | 0.4 | 14 | 34 | 50 | 119.0 | | 3 |
| 19 | Benzo(a)pyrene | DOFASCO | 0700 | FH | 157 | 101.1 | 0.8 | 3 | 35 | 105 | 29.9 | | 1 |
| | | DOFASCO | 1300 | FH | 13 | 38.2 | 0.8 | 3 | 35 | 105 | | | 1 |
| | | HILTON | 1300 | FL | 7 | 1.2 | 0.9 | | 28 | 70 | | 0.2 | 3 |
| | | ALGOMA | 1400 | FM | 114 | 8.0 | 1.0 | 6 | 66 | 117 | 5.1 | | 1 |

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APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | Benzo(a)pyrene | ALGOMA | 2000 | IL | 219 | 1.5 | 1.0 | 6 | 66 | 117 | | | 2 |
| | | HILTON | 0100 | IL | 53 | 1.1 | 0.9 | | 28 | 70 | | | 3 |
| 19 | Benzo(b)fluoranthene | ALGOMA | 1400 | FH | 7 | 170.0 | 1.0 | 97 | 97 | 97 | | 0.1 | 1 |
| | | DOFASCO | 0700 | FH | 12 | 82.9 | 0.6 | 11 | 42 | 80 | 52.9 | | 1 |
| 19 | Benzo(g,h,i)perylene | ALGOMA | 1400 | FH | 7 | 109.0 | 1.0 | 92 | 92 | 92 | | | 1 |
| | | DOFASCO | 0700 | FH | 12 | 24.7 | 0.6 | 9 | 28 | 44 | 0.7 | | 2 |
| 19 | Benzo(k)fluoranthene | ALGOMA | 1400 | FH | 7 | 95.0 | 1.0 | 91 | 91 | 91 | | | 1 |
| | | DOFASCO | 0700 | FH | 12 | 25.9 | 0.6 | 5 | 39 | 80 | 52.9 | | 3 |
| 19 | Benzobutylphthalate | DOFASCO | 0700 | FL | 12 | 4.3 | 1.0 | 25 | 41 | 60 | | | 1 |
| 19 | Bis(2–chloroethoxyl)methane | DOFASCO | 0700 | FL | 12 | 1.6 | 0.4 | 55 | 87 | 125 | | | 2 |
| 19 | Bis(2–chloroethyl)ether | DOFASCO | 0700 | FL | 12 | 1.8 | 0.4 | 55 | 84 | 105 | | | 2 |
| 19 | Bis(2–chloroisopropyl)ether | DOFASCO | 0700 | FL | 12 | 3.0 | 0.7 | 55 | 85 | 110 | | | 1 |
| 19 | Bis(2–ethylhexyl)phthalate | DOFASCO | 0700 | FM | 12 | 3.4 | 2.6 | 26 | 65 | 105 | 2.4 | | 3 |
| | | ALGOMA | 0700 | IL | 10 | 1.0 | 0.6 | 99 | 99 | 99 | 0.4 | | 3 |
| 19 | Camphene | DOFASCO | 0700 | FL | 12 | 1.2 | 0.3 | 5 | 25 | 60 | | | 3 |
| 19 | Chrysene | ALGOMA | 1400 | FH | 7 | 386.3 | 1.0 | 91 | 91 | 91 | | | 1 |
| | | DOFASCO | 0700 | FH | 12 | 162.5 | 1.0 | 10 | 32 | 44 | 176.7 | | 3 |
| | | DOFASCO | 0400 | FL | 10 | 1.4 | 1.0 | 10 | 32 | 44 | 1.0 | | 3 |
| | | HILTON | 0100 | FL | 5 | 2.5 | 1.0 | 30 | 30 | 30 | | | 2 |
| 19 | Di–n–butyl Phthalate | DOFASCO | 0700 | FL | 12 | 1.3 | 0.3 | 50 | 66 | 80 | | | 3 |
| 19 | Di–n–octyl Phthalate | DOFASCO | 0700 | FL | 12 | 1.7 | 0.4 | 11 | 33 | 55 | | | 3 |
| 19 | Dibenz(a,h)anthracene | DOFASCO | 0700 | FL | 12 | 4.2 | 0.3 | 8 | 28 | 43 | | | 2 |
| 19 | Diphenylamine | DOFASCO | 0700 | IL | 12 | 0.6 | 0.1 | 60 | 75 | 105 | | | 3 |
| 19 | Fluoranthene | ALGOMA | 1400 | FH | 7 | 1011.6 | 0.8 | 83 | 83 | 83 | | | 1 |
| | | DOFASCO | 0700 | FH | 12 | 181.0 | 0.5 | 60 | 66 | 80 | 253.8 | | 3 |
| | | DOFASCO | 0400 | FL | 10 | 1.3 | 0.5 | 60 | 66 | 80 | 0.8 | 0.2 | 3 |
| | | HILTON | 0100 | FM | 5 | 4.8 | 0.5 | 65 | 65 | 65 | | | 1 |
| 19 | Fluorene | ALGOMA | 1400 | FL | 7 | 77.6 | 0.7 | 79 | 79 | 79 | | | 1 |

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APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | Fluorene | DOFASCO | 0700 | FL | 12 | 2.4 | 0.2 | 75 | 88 | 110 | 0.1 | 0.1 | 1 |
| 19 | Indeno(1,2,3–cd)pyrene | ALGOMA | 1400 | FH | 7 | 63.8 | 0.9 | 99 | 99 | 99 | | | 1 |
| | | DOFASCO | 0700 | FH | 12 | 14.9 | 0.5 | 9 | 28 | 45 | 3.6 | | 2 |
| 19 | Indole | DOFASCO | 0700 | FL | 12 | 71.3 | 0.6 | 60 | 81 | 105 | 2.1 | | 1 |
| 19 | N–Nitrosodi–n–propylamine | DOFASCO | 0700 | FL | 12 | 2.9 | 0.7 | 60 | 99 | 155 | | | 2 |
| 19 | N–Nitrosodiphenylamine | DOFASCO | 0700 | IL | 12 | 0.6 | 0.1 | 60 | 75 | 105 | | | 3 |
| 19 | Naphthalene | ALGOMA | 1400 | FH | 114 | 10.6 | 1.2 | 11 | 70 | 111 | 8.8 | | 2 |
| | | DOFASCO | 1300 | FH | 13 | 155.0 | 0.2 | 41 | 84 | 120 | | | 1 |
| 19 | Naphthalene | DOFASCO | 0700 | FL | 157 | 6.3 | 0.2 | 41 | 84 | 120 | 2.3 | | 1 |
| | | ALGOMA | 2000 | IH | 219 | 1.7 | 1.2 | 11 | 70 | 111 | | | 2 |
| 19 | Perylene | ALGOMA | 1400 | FH | 7 | 27.2 | 0.7 | 82 | 82 | 82 | | | 1 |
| | | DOFASCO | 0700 | FH | 12 | 7.7 | 0.2 | 12 | 32 | 55 | 0.3 | | 2 |
| 19 | Phenanthrene | ALGOMA | 1400 | FL | 7 | 1008.8 | 0.8 | 80 | 80 | 80 | | | 1 |
| | | HILTON | 0100 | FL | 5 | 2.7 | 0.8 | 100 | 100 | 100 | | | 1 |
| | | DOFASCO | 0700 | FM | 12 | 16.2 | 0.8 | 65 | 77 | 100 | 17.4 | | 3 |
| 19 | Pyrene | ALGOMA | 1400 | FH | 7 | 751.4 | 0.8 | 83 | 83 | 83 | | | 1 |
| | | DOFASCO | 0700 | FH | 12 | 168.5 | 0.8 | 55 | 58 | 60 | 188.8 | | 3 |
| | | DOFASCO | 0400 | FL | 10 | 1.3 | 0.8 | 55 | 58 | 60 | 0.5 | 0.1 | 3 |
| | | HILTON | 0100 | FM | 5 | 3.9 | 0.8 | 75 | 75 | 75 | | | 1 |
| 23 | Hexachlorobenzene | ALGOMA | 0700 | IM | 10 | 1.4 | 1.0 | 93 | 93 | 93 | 0.6 | | 3 |
| 23 | Hexachloroethane | DOFASCO | 0100 | IH | 12 | 5.1 | 0.2 | 2 | 21 | 40 | | | 2 |
| 25 | Oil and Grease | DOFASCO | 1000 | FH | 148 | 67.7 | 0.9 | | | | | | 1 |
| | | HILTON | 1400 | FH | 2 | 6.3 | 1.1 | | | | | | 1 |
| | | ALGOMA | 0400 | FL | 258 | 1.2 | 0.5 | | | | 0.9 | | 3 |
| | | ALGOMA | 1400 | FL | 117 | 7.6 | 0.5 | | | | 1.5 | | 1 |
| | | ALGOMA | 1800 | FL | 259 | 1.8 | 0.5 | | | | 1.0 | | 3 |
| | | ALGOMA | 2000 | FL | 221 | 1.8 | 0.5 | | | | | | 2 |
| | | DOFASCO | 0100 | FL | 360 | 1.3 | 0.9 | | | | | | 3 |

NOTE: A glossary for terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | Oil and Grease | DOFASCO | 0200 | FL | 331 | 1.8 | 0.9 | | | | | | 2 |
| | | DOFASCO | 0700 | FL | 154 | 1.9 | 0.9 | | | | 0.6 | | 3 |
| | | DOFASCO | 0900 | FL | 157 | 1.8 | 0.9 | | | | | | 2 |
| | | DOFASCO | 1200 | FL | 12 | 1.1 | 0.9 | | | | | | 3 |
| | | DOFASCO | 1300 | FL | 12 | 2.7 | 0.9 | | | | | | 1 |
| | | HILTON | 0100 | FL | 140 | 1.6 | 1.1 | | | | 0.5 | | 3 |
| | | HILTON | 0200 | FL | 130 | 1.6 | 1.1 | | | | | | 2 |
| | | HILTON | 0400 | FL | 266 | 1.6 | 1.1 | | | | | | 2 |
| | | HILTON | 0602 | FL | 237 | 1.9 | 1.1 | | | | | | 2 |
| | | HILTON | 1100 | FL | 267 | 1.4 | 1.1 | | | | | | 3 |
| | | HILTON | 1300 | FL | 23 | 2.6 | 1.1 | | | | | | 2 |
| | | L.ERIE | 0100 | FL | 267 | 1.3 | 1.1 | | | | 0.1 | | 3 |
| | | L.ERIE | 0300 | FL | 3 | 1.5 | 1.1 | | | | | | 3 |
| | | L.ERIE | 0400 | FL | 104 | 1.4 | 1.1 | | | | 0.4 | | 3 |
| | | L.ERIE | 0500 | FL | 9 | 2.1 | 1.1 | | | | | | 2 |
| | | L.ERIE | 0600 | FL | 4 | 1.7 | 1.1 | | | | | | 2 |
| | | ALGOMA | 0700 | FM | 264 | 5.3 | 0.5 | | | | 1.2 | | 1 |
| | | DOFASCO | 1100 | FM | 157 | 5.2 | 0.9 | | | | | | 1 |
| | | DOFASCO | 1400 | FM | 12 | 2.5 | 0.9 | | | | | | 1 |
| | | HILTON | 0601 | FM | 270 | 2.1 | 1.1 | | | | 0.2 | | 1 |
| | | HILTON | 1200 | FM | 145 | 3.7 | 1.1 | | | | | | 1 |
| | | ALGOMA | 0100 | IL | 249 | 1.0 | 0.5 | | | | 0.2 | | 2 |
| | | ALGOMA | 0200 | IL | 8 | 1.1 | 0.5 | | | | | | 2 |
| | | ALGOMA | 1200 | IL | 86 | 0.9 | 0.5 | | | | | | 3 |
| | | ALGOMA | 1300 | IL | 87 | 0.9 | 0.5 | | | | | | 3 |
| | | ALGOMA | 1500 | IL | 40 | 0.8 | 0.5 | | | | | | 3 |
| | | DOFASCO | 0300 | IL | 52 | 1.3 | 0.9 | | | | | | 2 |
| | | DOFASCO | 0400 | IL | 351 | 1.1 | 0.9 | | | | 0.1 | | 2 |

NOTE: A glossary for terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 26 | Dehydroabietic Acid | ALGOMA | 1800 | FL | 5 | 2.3 | | | | | | | 2 |
| IS1 | Iron | ALGOMA | 0100 | FH | 42 | 23.7 | 1.3 | | | | | | 1 |
| | | ALGOMA | 0300 | FH | 35 | 24.5 | 1.3 | | | | | | 1 |
| | | ALGOMA | 0400 | FH | 37 | 20.9 | 1.3 | | | | | | 1 |
| | | ALGOMA | 0600 | FH | 8 | 7.0 | 1.3 | | | | | | 1 |
| | | ALGOMA | 0700 | FH | 39 | 18.1 | 1.3 | | | | 1.3 | | 1 |
| | | ALGOMA | 1800 | FH | 39 | 17.2 | 1.3 | | | | | | 1 |
| | | ALGOMA | 2000 | FH | 220 | 82.7 | 1.3 | | | | | | 1 |
| | | DOFASCO | 0100 | FH | 52 | 22.6 | 6.4 | | | | | | 1 |
| | | DOFASCO | 0200 | FH | 48 | 153.7 | 6.4 | | | | | | 1 |
| | | DOFASCO | 0300 | FH | 52 | 22.2 | 6.4 | | | | 1.5 | | 1 |
| | | DOFASCO | 0400 | FH | 51 | 135.8 | 6.4 | | | | 32.9 | | 1 |
| | | DOFASCO | 1200 | FH | 12 | 37.8 | 6.4 | | | | | | 1 |
| | | DOFASCO | 1300 | FH | 12 | 414.6 | 6.4 | | | | | | 1 |
| | | DOFASCO | 1400 | FH | 12 | 2268.5 | 6.4 | | | | | | 1 |
| | | HILTON | 0100 | FH | 39 | 20.3 | 8.4 | | | | | | 1 |
| | | HILTON | 0200 | FH | 39 | 24.7 | 8.4 | | | | | | 1 |
| | | HILTON | 0400 | FH | 39 | 20.5 | 8.4 | | | | | | 1 |
| | | HILTON | 0601 | FH | 39 | 42.8 | 8.4 | | | | 16.2 | | 1 |
| | | HILTON | 0602 | FH | 11 | 129.7 | 8.4 | | | | | | 1 |
| | | HILTON | 1100 | FH | 39 | 25.4 | 8.4 | | | | | | 1 |
| | | HILTON | 1200 | FH | 21 | 61.9 | 8.4 | | | | | | 1 |
| | | HILTON | 1300 | FH | 23 | 29.1 | 8.4 | | | | | | 1 |
| | | HILTON | 1400 | FH | 3 | 4106.4 | 8.4 | | | | | | 1 |
| | | L.ERIE | 0100 | FH | 34 | 18.7 | 1.4 | | | | 22.4 | | 3 |
| | | L.ERIE | 0300 | FH | 3 | 9.8 | 1.4 | | | | | | 1 |
| | | L.ERIE | 0500 | FH | 9 | 58.5 | 1.4 | | | | | | 1 |
| | | L.ERIE | 0600 | FH | 4 | 10.9 | 1.4 | | | | | | 1 |

NOTE: A glossary for terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–1

# INTEGRATED STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IS1 | Iron | ALGOMA | 0800 | FL | 4 | 3.0 | 1.3 | | | | | | 1 |
| | | ALGOMA | 1600 | FL | 10 | 3.5 | 1.3 | | | | | | 1 |
| | | ALGOMA | 0200 | FM | 35 | 5.4 | 1.3 | | | | | | 1 |
| | | ALGOMA | 0500 | FM | 37 | 4.3 | 1.3 | | | | | | 1 |
| | | ALGOMA | 1000 | FM | 9 | 6.3 | 1.3 | | | | | | 1 |
| | | ALGOMA | 1500 | FM | 10 | 3.4 | 1.3 | | | | | | 1 |

APPENDIX IV
TABLE IV–2

# MINI AND SPECIALTY STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4a | Ammonia plus Ammonium | IVACO | 0200 | FL | 4 | 1.2 | | | | | | | 3 |
| | | LASCO | 0100 | FL | 4 | 1.4 | | | | | | | 3 |
| 4a | Total Kjeldahl Nitrogen | IVACO | 0200 | FL | 4 | 2.0 | | | | | | | 2 |
| 4b | Nitrate+Nitrite | ATLAS | 0100 | FH | 4 | 17.7 | | | | | | | 2 |
| | | IVACO | 0200 | FM | 4 | 2.1 | | | | | | | 2 |
| | | LASCO | 0100 | FM | 4 | 4.9 | | | | | | | 2 |
| 5a | DOC | ATLAS | 0100 | FH | 136 | 5.5 | 1.0 | | | | 0.2 | | 1 |
| | | IVACO | 0200 | FH | 12 | 22.6 | 0.4 | | | | 0.2 | | 1 |
| | | LASCO | 0100 | FH | 53 | 67.4 | 9.1 | | | | 5.5 | | 1 |
| 5b | TOC | IVACO | 0200 | FL | 4 | 2.0 | | | | | | | 2 |
| 6 | Total Phosphorus | IVACO | 0200 | FH | 12 | 7.3 | 0.1 | | | | 0.3 | | 1 |
| | | LASCO | 0100 | FM | 53 | 3.7 | 0.5 | | | | 0.5 | | 1 |
| 8 | Total Suspended Solids | ATLAS | 0200 | FH | 44 | 189.4 | 0.4 | | | | 138.6 | | 1 |
| | | ATLAS | 0800 | FH | 10 | 21.5 | 0.4 | | | | 0.9 | | 1 |
| | | IVACO | 0300 | FH | 6 | 9.7 | | | | | | | 1 |
| | | IVACO | 0400 | FH | 6 | 6.9 | | | | | | | 1 |
| | | LASCO | 0200 | FH | 14 | 52.2 | 1.0 | | | | 23.7 | | 1 |
| | | LASCO | 0600 | FH | 12 | 14.6 | 1.0 | | | | | | 1 |
| | | ATLAS | 0100 | FL | 332 | 1.2 | 0.4 | | | | 0.1 | | 2 |
| | | ATLAS | 0500 | FL | 10 | 4.9 | 0.4 | | | | 0.3 | | 1 |
| | | LASCO | 0100 | FL | 365 | 1.9 | 1.0 | | | | 0.3 | | 2 |
| | | IVACO | 0200 | FM | 12 | 5.5 | | | | | 2.6 | | 1 |
| | | ATLAS | 0300 | IM | 133 | 1.1 | 0.4 | | | | 0.1 | | 2 |
| 8 | Volatile Suspended Solids | ATLAS | 0200 | FH | 44 | 21.8 | 0.5 | | | | 15.0 | | 1 |
| | | IVACO | 0200 | FL | 12 | 0.8 | | | | | 1.5 | | 3 |
| | | LASCO | 0600 | FL | 12 | 2.3 | 0.5 | | | | | | 2 |
| | | ATLAS | 0800 | FM | 10 | 4.0 | 0.5 | | | | 0.4 | | 1 |
| | | LASCO | 0200 | FM | 14 | 6.3 | 0.5 | | | | 1.1 | | 1 |

NOTE: A glossary for terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–2

# MINI AND SPECIALTY STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | Aluminum | IVACO | 0200 | FH | 4 | 30.4 | | | | | | | 1 |
| | | ATLAS | 0100 | FL | 11 | 2.1 | 0.4 | | | | 0.4 | | 2 |
| | | ATLAS | 0200 | FM | 44 | 41.0 | 0.4 | | | | | | 1 |
| | | LASCO | 0100 | FM | 11 | 3.3 | 0.7 | | | | 0.7 | | 1 |
| 9 | Cadmium | LASCO | 0100 | FL | 11 | 3.0 | 1.0 | | | | 4.5 | | 3 |
| | | ATLAS | 0200 | IH | 43 | 6.5 | 0.5 | | | | | | 1 |
| 9 | Chromium | ATLAS | 0200 | FH | 44 | 1135.7 | 0.4 | | | | | | 1 |
| | | IVACO | 0200 | FL | 12 | 0.8 | 0.1 | | | | 0.1 | | 3 |
| | | ATLAS | 0100 | IL | 11 | 1.0 | 0.4 | | | | 0.4 | | 2 |
| | | ATLAS | 0300 | IM | 138 | 1.4 | 0.4 | | | | 0.3 | | 2 |
| 9 | Cobalt | ATLAS | 0200 | FH | 44 | 25.9 | 0.5 | | | | | | 1 |
| 9 | Copper | ATLAS | 0200 | FH | 44 | 129.0 | 0.7 | | | | | | 1 |
| | | LASCO | 0100 | FL | 11 | 8.1 | 1.9 | | | | 0.9 | | 1 |
| | | ATLAS | 0100 | FM | 11 | 2.9 | 0.7 | | | | 0.8 | | 1 |
| | | IVACO | 0200 | FM | 4 | 2.8 | | | | | | | 1 |
| 9 | Lead | LASCO | 0200 | FH | 14 | 294.1 | 0.6 | | | | | | 1 |
| | | IVACO | 0300 | FL | 6 | 1.2 | 0.4 | | | | | | 3 |
| | | LASCO | 0100 | FL | 157 | 1.7 | 0.6 | | | | 0.3 | 3.9 | 2 |
| | | LASCO | 0600 | FM | 12 | 3.2 | 0.6 | | | | | | 1 |
| | | ATLAS | 0200 | IH | 44 | 1.3 | 0.4 | | | | | | 3 |
| 9 | Molybdenum | ATLAS | 0200 | FH | 44 | 204.0 | 0.6 | | | | | | 1 |
| | | ATLAS | 0100 | FM | 11 | 3.1 | 0.6 | | | | 0.2 | | 1 |
| | | LASCO | 0100 | IL | 11 | 1.1 | 0.5 | | | | | | 2 |
| 9 | Nickel | ATLAS | 0100 | FH | 11 | 7.8 | 0.6 | | | | 0.1 | | 1 |
| | | ATLAS | 0200 | FH | 44 | 2053.0 | 0.6 | | | | | | 1 |
| | | ATLAS | 0800 | FH | 9 | 18.0 | 0.6 | | | | 2.0 | | 1 |
| | | ATLAS | 0400 | FL | 141 | 1.5 | 0.6 | | | | | | 2 |
| | | ATLAS | 0500 | FL | 9 | 2.2 | 0.6 | | | | | | 2 |

NOTE: A glossary for terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–2

# MINI AND SPECIALTY STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | Nickel | LASCO | 0100 | FL | 11 | 1.2 | 0.8 | | | | 0.5 | | 3 |
| | | ATLAS | 0300 | FM | 138 | 6.1 | 0.6 | | | | 0.6 | | 1 |
| 9 | Vanadium | ATLAS | 0200 | IH | 44 | 5.0 | 0.6 | | | | | | 1 |
| 9 | Zinc | ATLAS | 0100 | FH | 12 | 5.3 | 0.9 | | | | 0.3 | | 1 |
| | | ATLAS | 0200 | FH | 44 | 34.0 | 0.9 | | | | | | 1 |
| | | ATLAS | 0300 | FH | 137 | 9.0 | 0.9 | | | | 0.7 | | 1 |
| | | ATLAS | 0800 | FH | 9 | 32.8 | 0.9 | | | | 1.0 | | 1 |
| | | IVACO | 0200 | FH | 12 | 55.8 | 0.3 | | | | 3.0 | | 1 |
| | | IVACO | 0300 | FH | 6 | 27.3 | 0.3 | | | | | | 1 |
| | | IVACO | 0400 | FH | 6 | 10.4 | 0.3 | | | | | | 1 |
| | | IVACO | 0800 | FH | 6 | 15.8 | 0.3 | | | | | | 1 |
| | | LASCO | 0100 | FH | 157 | 33.7 | 4.2 | | | | 11.7 | | 1 |
| | | LASCO | 0200 | FH | 14 | 138.9 | 4.2 | | | | | | 1 |
| | | LASCO | 0600 | FH | 12 | 21.7 | 4.2 | | | | | | 1 |
| | | ATLAS | 0400 | FL | 140 | 2.0 | 0.9 | | | | | | 2 |
| | | ATLAS | 0500 | FL | 10 | 3.5 | 0.9 | | | | | | 1 |
| 10 | Antimony | ATLAS | 0200 | IL | 44 | 2.8 | | | | | | | 2 |
| 10 | Arsenic | ATLAS | 0200 | IH | 44 | 4.0 | | | | | | | 2 |
| 11 | Chromium (hexavalent) | IVACO | 0200 | FH | 3 | 4.5 | | | | | | | 2 |
| | | ATLAS | 0200 | FM | 30 | 7.4 | 0.6 | | | | | | 1 |
| | | ATLAS | 0500 | FM | 3 | 13.0 | 0.6 | | | | | | 1 |
| 16 | Chloroform | IVACO | 0200 | FM | 5 | 5.1 | | 38 | 43 | 46 | | | 1 |
| 16 | Methylene Chloride | IVACO | 0200 | FM | 5 | 2.3 | | 27 | 38 | 60 | | 1.7 | 3 |
| 16 | Tetrachloroethylene | IVACO | 0200 | FM | 5 | 2.3 | | 113 | 118 | 129 | | | 2 |
| 16 | Trichloroethylene | IVACO | 0200 | FH | 4 | 37.5 | | 170 | 171 | 173 | | | 2 |
| 17 | Toluene | IVACO | 0200 | FL | 5 | 1.3 | | 80 | 83 | 90 | | 0.8 | 2 |
| 19 | Phenanthrene | IVACO | 0200 | FL | 5 | 1.4 | | 123 | 133 | 138 | | 0.1 | 3 |

NOTE: A glossary for terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–2

# MINI AND SPECIALTY STEEL MILLS

## POTENTIAL CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | Oil and Grease | ATLAS | 0500 | FH | 10 | 6.6 | 1.0 | | | | 0.2 | | 1 |
| | | ATLAS | 0800 | FH | 9 | 121.5 | 1.0 | | | | 2.0 | | 1 |
| | | IVACO | 0200 | FH | 11 | 22.4 | 1.0 | | | | 4.0 | | 1 |
| | | LASCO | 0200 | FH | 14 | 18.8 | 1.1 | | | | | | 1 |
| | | ATLAS | 0100 | FL | 329 | 2.8 | 1.0 | | | | 0.8 | | 2 |
| | | ATLAS | 0400 | FL | 136 | 13.6 | 1.0 | | | | 0.2 | | 1 |
| | | IVACO | 0300 | FL | 6 | 1.5 | 1.0 | | | | | | 2 |
| | | IVACO | 0400 | FL | 5 | 1.4 | 1.0 | | | | | | 2 |
| | | LASCO | 0100 | FL | 365 | 2.3 | 1.1 | | | | 0.8 | | 1 |
| | | ATLAS | 0200 | FM | 45 | 7.9 | 1.0 | | | | 20.4 | | 3 |
| | | LASCO | 0600 | FM | 12 | 24.0 | 1.1 | | | | | | 1 |
| | | ATLAS | 0300 | IM | 133 | 1.8 | 1.0 | | | | 1.4 | | 2 |
| IS1 | Iron | ATLAS | 0100 | FH | 10 | 13.5 | 0.5 | | | | 7.1 | | 1 |
| | | ATLAS | 0800 | FH | 9 | 229.2 | 0.5 | | | | 5.5 | | 1 |
| | | IVACO | 0200 | FH | 12 | 57.1 | 0.1 | | | | 15.8 | | 1 |
| | | IVACO | 0300 | FH | 6 | 137.0 | 0.1 | | | | | | 1 |
| | | IVACO | 0400 | FH | 6 | 88.9 | 0.1 | | | | | | 1 |
| | | LASCO | 0100 | FH | 53 | 53.4 | 1.5 | | | | 3.9 | 5.0 | 1 |
| | | LASCO | 0200 | FH | 14 | 385.2 | 1.5 | | | | | | 1 |
| | | LASCO | 0600 | FH | 12 | 16.8 | 1.5 | | | | | | 1 |
| | | IVACO | 0800 | FL | 6 | 1.4 | 0.1 | | | | | | 1 |
| | | ATLAS | 0500 | FM | 10 | 17.5 | 0.5 | | | | | | 1 |

NOTE: A glossary for terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4a | Ammonia plus Ammonium | L.ERIE | 0100 | IL | 112 | 0.4 | 0.2 | | | | 0.1 | |
| | | L.ERIE | 0400 | IL | 105 | 0.3 | 0.2 | | | | 0.0 | |
| 4b | Total Kjeldahl Nitrogen | ALGOMA | 0700 | FL | 2 | 7.7 | | | | | | |
| 5b | TOC | DOFASCO | 0400 | FL | 4 | 1.0 | | | | | | |
| | | DOFASCO | 0300 | IL | 4 | 1.0 | | | | | | |
| | | HILTON | 0601 | IL | 3 | 1.0 | | | | | | |
| | | ALGOMA | 0300 | NO | 3 | 0.6 | 0.1 | | | | | |
| | | ALGOMA | 0700 | NO | 4 | 0.6 | 0.1 | | | | | |
| | | L.ERIE | 0100 | NO | 3 | 0.6 | | | | | | |
| 6 | Total Phosphorus | ALGOMA | 0300 | IM | 9 | 0.4 | 0.1 | | | | 0.0 | |
| | | DOFASCO | 0300 | NO | 52 | 0.6 | 0.2 | | | | 0.1 | |
| | | HILTON | 0100 | NO | 23 | 0.5 | 0.3 | | | | | |
| | | HILTON | 0601 | NO | 39 | 0.4 | 0.3 | | | | 0.1 | |
| 8 | Total Suspended Solids | L.ERIE | 0400 | IL | 105 | 1.0 | 0.9 | | | | 0.1 | |
| 8 | Volatile Suspended Solids | ALGOMA | 0300 | IH | 263 | 0.2 | | | | | | |
| | | ALGOMA | 0700 | IL | 260 | 0.5 | | | | | 0.1 | |
| | | DOFASCO | 0400 | IL | 351 | 0.7 | | | | | 0.2 | |
| | | DOFASCO | 0300 | NO | 52 | 0.5 | | | | | 0.1 | |
| | | HILTON | 0100 | NO | 140 | 0.4 | | | | | | |
| | | HILTON | 0601 | NO | 271 | 0.3 | | | | | 0.1 | |
| | | L.ERIE | 0100 | NO | 268 | 0.2 | 0.1 | | | | 0.0 | |
| | | L.ERIE | 0400 | NO | 104 | 0.1 | 0.1 | | | | 0.0 | |
| 9 | Aluminum | ALGOMA | 0300 | FL | 2 | 0.8 | 0.2 | | | | | |
| 9 | Beryllium | ALGOMA | 0300 | NO | 2 | 0.5 | 0.5 | | | | | |
| | | ALGOMA | 0700 | NO | 11 | 0.5 | 0.5 | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.2 | 0.2 | | | | | |
| | | DOFASCO | 0400 | NO | 12 | 0.2 | 0.2 | | | | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | Beryllium | HILTON | 0100 | NO | 5 | 0.6 | 0.6 | | | | | |
| | | HILTON | 0601 | NO | 9 | 0.6 | 0.6 | | | | | |
| | | L.ERIE | 0100 | NO | 9 | 0.6 | 0.7 | | | | | |
| 9 | Cadmium | DOFASCO | 0400 | IL | 12 | 1.0 | 1.0 | | | | | |
| | | HILTON | 0100 | IL | 5 | 1.5 | 1.0 | | | | | |
| | | ALGOMA | 0300 | NO | 2 | 0.5 | | | | | | |
| | | ALGOMA | 0700 | NO | 11 | 0.5 | | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 1.0 | 1.0 | | | | | |
| 9 | Chromium | HILTON | 0100 | IL | 57 | 0.6 | 0.7 | | | | | |
| | | HILTON | 0601 | IL | 117 | 0.6 | 0.7 | | | | 0.2 | |
| | | L.ERIE | 0400 | IL | 104 | 0.5 | 0.3 | | | | 0.1 | |
| | | ALGOMA | 0300 | NO | 9 | 0.6 | 0.5 | | | | | |
| | | ALGOMA | 0700 | NO | 11 | 0.7 | 0.5 | | | | | |
| | | L.ERIE | 0100 | NO | 40 | 0.5 | 0.3 | | | | 0.1 | |
| 9 | Cobalt | HILTON | 0601 | IL | 9 | 0.3 | 0.2 | | | | | |
| | | ALGOMA | 0300 | NO | 2 | 0.5 | 0.8 | | | | | |
| | | ALGOMA | 0700 | NO | 11 | 0.7 | 0.8 | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.5 | 0.5 | | | | | |
| | | DOFASCO | 0400 | NO | 12 | 0.5 | 0.5 | | | | | |
| | | HILTON | 0100 | NO | 5 | 0.2 | 0.2 | | | | | |
| | | L.ERIE | 0100 | NO | 9 | 0.3 | 0.5 | | | | | |
| 9 | Copper | ALGOMA | 0700 | IL | 11 | 1.0 | 1.0 | | | | | |
| | | ALGOMA | 0300 | NO | 2 | 0.9 | 1.0 | | | | | |
| 9 | Lead | ALGOMA | 0300 | IL | 9 | 0.4 | 0.4 | | | | | |
| | | DOFASCO | 0400 | IL | 12 | 1.1 | 0.7 | | | | | |
| | | HILTON | 0100 | IL | 57 | 0.3 | 0.2 | | | | | |
| | | HILTON | 0601 | IL | 117 | 0.2 | 0.2 | | | | 0.1 | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | Lead | L.ERIE | 0100 | IM | 39 | 0.7 | 0.4 | | | | | |
| | | L.ERIE | 0400 | IM | 103 | 1.0 | 0.4 | | | | 0.1 | |
| | | ALGOMA | 0700 | NO | 11 | 0.2 | 0.4 | | | | | |
| | | DOFASCO | 0300 | NO | 12 | 1.0 | 0.7 | | | | 1.0 | |
| 9 | Molybdenum | DOFASCO | 0300 | FL | 4 | 1.2 | 1.0 | | | | | |
| | | HILTON | 0601 | IL | 9 | 0.5 | 0.3 | | | | | |
| | | L.ERIE | 0100 | IL | 9 | 0.9 | 0.6 | | | | 0.1 | |
| | | ALGOMA | 0300 | NO | 2 | 0.6 | 1.0 | | | | | |
| | | ALGOMA | 0700 | NO | 11 | 0.3 | 1.0 | | | | | |
| | | HILTON | 0100 | NO | 5 | 0.5 | 0.3 | | | | | |
| 9 | Nickel | DOFASCO | 0400 | IL | 12 | 0.8 | 0.5 | | | | 4.8 | |
| | | L.ERIE | 0100 | IL | 9 | 0.7 | 1.0 | | | | 0.1 | |
| | | ALGOMA | 0300 | NO | 2 | 0.6 | 1.0 | | | | | |
| | | ALGOMA | 0700 | NO | 11 | 0.9 | 1.0 | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.5 | 0.5 | | | | | |
| | | HILTON | 0100 | NO | 5 | 0.6 | 0.5 | | | | | |
| 9 | Silver | ALGOMA | 0300 | NO | 2 | 0.3 | 0.5 | | | | | |
| | | ALGOMA | 0700 | NO | 11 | 0.4 | 0.5 | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.3 | | | | | |
| | | DOFASCO | 0400 | NO | 12 | 0.3 | 0.3 | | | | | |
| | | HILTON | 0100 | NO | 5 | 0.1 | 0.2 | | | | | |
| | | HILTON | 0601 | NO | 9 | 0.2 | 0.2 | | | | | |
| | | L.ERIE | 0100 | NO | 9 | 0.2 | 0.4 | | | | | |
| 9 | Thallium | ALGOMA | 0300 | NO | 2 | 0.7 | 0.3 | | | | | |
| | | ALGOMA | 0700 | NO | 11 | 0.5 | 0.3 | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.7 | 1.0 | | | | | |
| | | HILTON | 0100 | NO | 5 | 0.1 | 0.1 | | | | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | Thallium | HILTON | 0601 | NO | 9 | 0.1 | 0.1 | | | | | |
| | | L.ERIE | 0100 | NO | 9 | 0.2 | 0.4 | | | | | |
| 9 | Vanadium | L.ERIE | 0100 | IH | 9 | 1.4 | 1.0 | | | | 2.0 | |
| | | ALGOMA | 0300 | NO | 2 | 0.6 | 1.0 | | | | | |
| | | ALGOMA | 0700 | NO | 11 | 0.9 | 1.0 | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.3 | | | | | |
| | | DOFASCO | 0400 | NO | 12 | 0.3 | 0.3 | | | | 0.1 | |
| 10 | Antimony | ALGOMA | 0300 | NO | 2 | | | | | | | |
| | | ALGOMA | 0700 | NO | 11 | 0.2 | | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.6 | 0.6 | | | | | |
| | | DOFASCO | 0400 | NO | 10 | 0.6 | 0.6 | | | | | |
| | | HILTON | 0100 | NO | 5 | 0.4 | 0.4 | | | | | |
| | | HILTON | 0601 | NO | 9 | 0.4 | 0.4 | | | | | |
| | | L.ERIE | 0100 | NO | 9 | 0.6 | 1.0 | | | | 0.2 | |
| 10 | Arsenic | ALGOMA | 0700 | IH | 11 | 1.0 | | | | | | |
| | | HILTON | 0601 | IL | 9 | 0.4 | 0.4 | | | | | |
| | | ALGOMA | 0300 | NO | 2 | 0.2 | | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.6 | 0.6 | | | | | |
| | | DOFASCO | 0400 | NO | 10 | 0.6 | 0.6 | | | | | |
| | | HILTON | 0100 | NO | 5 | 0.4 | 0.4 | | | | | |
| | | L.ERIE | 0100 | NO | 9 | 0.4 | 0.6 | | | | | |
| 10 | Selenium | ALGOMA | 0300 | NO | 2 | 0.2 | | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.6 | 0.6 | | | | | |
| | | HILTON | 0100 | NO | 5 | 0.4 | 0.2 | | | | | |
| | | HILTON | 0601 | NO | 9 | 0.2 | 0.2 | | | | | |
| 11 | Chromium (hexavalent) | ALGOMA | 0700 | FL | 1 | 1.3 | | | | | | |
| | | HILTON | 0100 | IL | 3 | 0.9 | | | | | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | Chromium (hexavalent) | L.ERIE | 0100 | IL | 3 | 1.1 | | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.9 | | | | | | |
| | | DOFASCO | 0400 | NO | 4 | 0.9 | | | | | | |
| | | HILTON | 0601 | NO | 2 | 0.6 | | | | | | |
| 12 | Mercury | ALGOMA | 0300 | FL | 2 | 0.9 | 0.1 | | | | | |
| | | DOFASCO | 0400 | IH | 10 | 1.1 | 0.2 | | | | | |
| | | ALGOMA | 0700 | NO | 11 | 0.3 | 0.1 | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.2 | | | | | |
| | | HILTON | 0100 | NO | 5 | 0.2 | 0.2 | | | | | |
| | | HILTON | 0601 | NO | 9 | 0.2 | 0.2 | | | | | |
| 15 | Sulphide | ALGOMA | 0300 | FL | 2 | 1.0 | 1.1 | | | | | |
| | | DOFASCO | 0300 | FL | 4 | 1.8 | | | | | | |
| | | HILTON | 0601 | IL | 3 | 1.2 | | | | | | |
| | | L.ERIE | 0100 | IM | 3 | 1.3 | | | | | | |
| 16 | 1,1,2,2–Tetrachloroethane | ALGOMA | 0300 | NO | 2 | 0.2 | 0.2 | 32 | 32 | 32 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.2 | 0.2 | 32 | 32 | 32 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.1 | 0.1 | 100 | 105 | 110 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.1 | 0.1 | 100 | 105 | 110 | | |
| | | HILTON | 0100 | NO | 5 | 0.1 | 0.1 | 100 | 100 | 100 | | |
| | | HILTON | 0601 | NO | 9 | 0.1 | 0.1 | 100 | 100 | 100 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.1 | 0.1 | 95 | 95 | 95 | | |
| 16 | 1,1,2–Trichloroethane | HILTON | 0100 | IL | 5 | 1.0 | 1.0 | 90 | 90 | 90 | | |
| | | ALGOMA | 0300 | NO | 2 | 0.8 | 0.8 | 53 | 53 | 53 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.8 | 0.8 | 53 | 53 | 53 | | |
| | | DOFASCO | 0300 | NO | 4 | 1.0 | 1.0 | 100 | 108 | 115 | | |
| | | DOFASCO | 0400 | NO | 10 | 1.0 | 1.0 | 100 | 108 | 115 | | |
| | | HILTON | 0601 | NO | 9 | 1.0 | 1.0 | 90 | 90 | 90 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 1,1,2–Trichloroethane | L.ERIE | 0100 | NO | 9 | 1.0 | 1.0 | 105 | 105 | 105 | | |
| 16 | 1,1–Dichloroethane | ALGOMA | 0300 | NO | 2 | 0.6 | 0.6 | 38 | 38 | 38 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.6 | 0.6 | 38 | 38 | 38 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.6 | 0.6 | 95 | 98 | 100 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.6 | 0.6 | 95 | 98 | 100 | | |
| | | HILTON | 0100 | NO | 5 | 0.6 | 0.6 | 150 | 150 | 150 | | |
| | | HILTON | 0601 | NO | 9 | 0.6 | 0.6 | 150 | 150 | 150 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.6 | 0.6 | 90 | 90 | 90 | | |
| 16 | 1,1–Dichloroethylene | ALGOMA | 0300 | NO | 2 | 0.3 | 0.3 | 14 | 14 | 14 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.3 | 0.3 | 14 | 14 | 14 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.1 | 0.1 | 95 | 98 | 100 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.1 | 0.1 | 95 | 98 | 100 | | |
| | | HILTON | 0100 | NO | 5 | 0.1 | 0.1 | 100 | 100 | 100 | | 0.1 |
| | | HILTON | 0601 | NO | 9 | 0.1 | 0.1 | 100 | 100 | 100 | | 0.0 |
| | | L.ERIE | 0100 | NO | 9 | 0.1 | 0.1 | 90 | 90 | 90 | | |
| 16 | 1,2–Dichlorobenzene | ALGOMA | 0300 | NO | 2 | 0.5 | 0.5 | 89 | 89 | 89 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.5 | 0.5 | 89 | 89 | 89 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.3 | 90 | 110 | 130 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.3 | 0.3 | 90 | 110 | 130 | | |
| | | HILTON | 0100 | NO | 5 | 0.3 | 0.3 | 105 | 105 | 105 | | |
| | | HILTON | 0601 | NO | 9 | 0.3 | 0.3 | 105 | 105 | 105 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.3 | 0.3 | 100 | 100 | 100 | | |
| 16 | 1,2–Dichloroethane | ALGOMA | 0300 | NO | 2 | 0.6 | 0.6 | 66 | 66 | 66 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.6 | 0.6 | 66 | 66 | 66 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.5 | 0.5 | 100 | 100 | 100 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.5 | 0.5 | 100 | 100 | 100 | | 0.3 |
| | | HILTON | 0100 | NO | 5 | 0.5 | 0.5 | 120 | 120 | 120 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 1,2–Dichloroethane | HILTON | 0601 | NO | 9 | 0.5 | 0.5 | 120 | 120 | 120 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.5 | 0.5 | 95 | 95 | 95 | | |
| 16 | 1,2–Dichloropropane | ALGOMA | 0300 | NO | 2 | 0.7 | 0.7 | 54 | 54 | 54 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.7 | 0.7 | 54 | 54 | 54 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.6 | 0.6 | 100 | 103 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.6 | 0.6 | 100 | 103 | 105 | | |
| | | HILTON | 0100 | NO | 5 | 0.6 | 0.6 | 120 | 120 | 120 | | |
| | | HILTON | 0601 | NO | 9 | 0.6 | 0.6 | 120 | 120 | 120 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.6 | 0.6 | 100 | 100 | 100 | | |
| 16 | 1,3–Dichlorobenzene | ALGOMA | 0300 | NO | 2 | 0.6 | 0.6 | 56 | 56 | 56 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.6 | 0.6 | 56 | 56 | 56 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.3 | 90 | 90 | 90 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.3 | 0.3 | 90 | 90 | 90 | | |
| | | HILTON | 0100 | NO | 5 | 0.3 | 0.3 | 80 | 80 | 80 | | |
| | | HILTON | 0601 | NO | 9 | 0.3 | 0.3 | 80 | 80 | 80 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.3 | 0.3 | 95 | 95 | 95 | | |
| 16 | 1,4–Dichlorobenzene | ALGOMA | 0300 | NO | 2 | 0.5 | 0.5 | 60 | 60 | 60 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.5 | 0.5 | 60 | 60 | 60 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.1 | 0.1 | 75 | 90 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.1 | 0.1 | 75 | 90 | 105 | | |
| | | HILTON | 0100 | NO | 5 | 0.1 | 0.1 | 80 | 80 | 80 | | 0.0 |
| | | HILTON | 0601 | NO | 9 | 0.1 | 0.1 | 80 | 80 | 80 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.1 | 0.1 | 95 | 95 | 95 | | |
| 16 | Bromoform | HILTON | 0100 | IM | 5 | 0.7 | 0.1 | 95 | 95 | 95 | | |
| | | ALGOMA | 0300 | NO | 2 | 0.3 | 0.3 | 71 | 71 | 71 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.3 | 0.3 | 71 | 71 | 71 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.1 | 0.1 | 90 | 95 | 100 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | Bromoform | DOFASCO | 0400 | NO | 10 | 0.1 | 0.1 | 90 | 95 | 100 | | |
| | | HILTON | 0601 | NO | 9 | 0.1 | 0.1 | 95 | 95 | 95 | | |
| 16 | Bromomethane | L.ERIE | 0100 | IL | 9 | 0.7 | 0.7 | 75 | 75 | 75 | | 1.0 |
| | | ALGOMA | 0300 | NO | 2 | 0.7 | 0.7 | 34 | 34 | 34 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.7 | 0.7 | 34 | 34 | 34 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.7 | 0.7 | 100 | 103 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.7 | 0.7 | 100 | 103 | 105 | | 0.2 |
| | | HILTON | 0100 | NO | 5 | 0.7 | 0.7 | 90 | 90 | 90 | | 0.1 |
| | | HILTON | 0601 | NO | 9 | 0.7 | 0.7 | 90 | 90 | 90 | | 0.1 |
| 16 | Carbon Tetrachloride | ALGOMA | 0300 | NO | 2 | 0.7 | 0.7 | 17 | 17 | 17 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.7 | 0.7 | 17 | 17 | 17 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.2 | 0.2 | 100 | 105 | 110 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.2 | 0.2 | 100 | 105 | 110 | | |
| | | HILTON | 0100 | NO | 5 | 0.2 | 0.2 | 110 | 110 | 110 | | |
| | | HILTON | 0601 | NO | 9 | 0.2 | 0.2 | 110 | 110 | 110 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.2 | 0.2 | 95 | 95 | 95 | | |
| 16 | Chlorobenzene | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 55 | 55 | 55 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 55 | 55 | 55 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.9 | 0.9 | 100 | 100 | 100 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.9 | 0.9 | 100 | 100 | 100 | | |
| | | HILTON | 0100 | NO | 5 | 0.9 | 0.9 | 100 | 100 | 100 | | |
| | | HILTON | 0601 | NO | 9 | 0.9 | 0.9 | 100 | 100 | 100 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.9 | 0.9 | 105 | 105 | 105 | | |
| 16 | Chloroform | HILTON | 0601 | IH | 9 | 1.2 | 0.6 | 120 | 120 | 120 | | 0.8 |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 39 | 39 | 39 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 39 | 39 | 39 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.6 | 0.6 | 90 | 93 | 95 | | 0.2 |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | Chloroform | DOFASCO | 0400 | NO | 10 | 0.6 | 0.6 | 90 | 93 | 95 | | 0.2 |
| | | HILTON | 0100 | NO | 5 | 0.6 | 0.6 | 120 | 120 | 120 | | 0.6 |
| 16 | Chloromethane | ALGOMA | 0300 | NO | 2 | 0.9 | 0.9 | 32 | 32 | 32 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.9 | 0.9 | 32 | 32 | 32 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.6 | 0.6 | 50 | 80 | 110 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.6 | 0.6 | 50 | 80 | 110 | | 0.1 |
| | | HILTON | 0100 | NO | 5 | 0.6 | 0.6 | 70 | 70 | 70 | | 0.0 |
| | | HILTON | 0601 | NO | 9 | 0.6 | 0.6 | 70 | 70 | 70 | | 0.1 |
| | | L.ERIE | 0100 | NO | 9 | 0.6 | 0.6 | 70 | 70 | 70 | | 0.2 |
| 16 | Cis–1,3–Dichloropropylene | ALGOMA | 0300 | NO | 2 | 0.8 | 0.8 | 55 | 55 | 55 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.8 | 0.8 | 55 | 55 | 55 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.5 | 0.5 | 100 | 100 | 100 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.5 | 0.5 | 100 | 100 | 100 | | |
| | | HILTON | 0100 | NO | 5 | 0.5 | 0.5 | 95 | 95 | 95 | | |
| | | HILTON | 0601 | NO | 9 | 0.5 | 0.5 | 95 | 95 | 95 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.5 | 0.5 | 110 | 110 | 110 | | |
| 16 | Dibromochloromethane | HILTON | 0100 | IH | 5 | 1.5 | 0.4 | 100 | 100 | 100 | | 0.1 |
| | | HILTON | 0601 | IM | 9 | 0.8 | 0.4 | 100 | 100 | 100 | | |
| | | ALGOMA | 0300 | NO | 2 | 0.9 | 0.9 | 43 | 43 | 43 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.9 | 0.9 | 43 | 43 | 43 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.4 | 0.4 | 95 | 100 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.4 | 0.4 | 95 | 100 | 105 | | |
| 16 | Ethylene Dibromide | ALGOMA | 0300 | NO | 2 | 0.5 | 0.5 | 48 | 48 | 48 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.5 | 0.5 | 48 | 48 | 48 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.6 | 0.6 | 100 | 100 | 100 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.6 | 0.6 | 100 | 100 | 100 | | |
| | | HILTON | 0100 | NO | 5 | 0.6 | 0.6 | 105 | 105 | 105 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | Ethylene Dibromide | HILTON | 0601 | NO | 9 | 0.6 | 0.6 | 105 | 105 | 105 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.6 | 0.6 | 105 | 105 | 105 | | |
| 16 | Methylene Chloride | L.ERIE | 0100 | IH | 9 | 1.0 | 0.2 | 95 | 95 | 95 | | 2.1 |
| | | ALGOMA | 0300 | NO | 2 | 0.8 | 0.8 | 107 | 107 | 107 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.8 | 0.8 | 107 | 107 | 107 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.2 | 0.2 | 75 | 78 | 80 | | 1.0 |
| | | DOFASCO | 0400 | NO | 10 | 0.2 | 0.2 | 75 | 78 | 80 | | 1.4 |
| | | HILTON | 0100 | NO | 5 | 0.2 | 0.2 | 100 | 100 | 100 | | 1.8 |
| | | HILTON | 0601 | NO | 9 | 0.2 | 0.2 | 100 | 100 | 100 | | 2.4 |
| 16 | Tetrachloroethylene | ALGOMA | 0300 | NO | 2 | 0.8 | 0.8 | 14 | 14 | 14 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.8 | 0.8 | 14 | 14 | 14 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.2 | 0.2 | 105 | 105 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.2 | 0.2 | 105 | 105 | 105 | | 0.0 |
| | | HILTON | 0100 | NO | 5 | 0.2 | 0.2 | 95 | 95 | 95 | | 0.0 |
| | | HILTON | 0601 | NO | 9 | 0.2 | 0.2 | 95 | 95 | 95 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.2 | 0.2 | 100 | 100 | 100 | | |
| 16 | Trans–1,2–Dichloroethylene | ALGOMA | 0300 | NO | 2 | 0.8 | 0.8 | 30 | 30 | 30 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.8 | 0.8 | 30 | 30 | 30 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.3 | 95 | 100 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.3 | 0.3 | 95 | 100 | 105 | | |
| | | HILTON | 0100 | NO | 5 | 0.3 | 0.3 | 130 | 130 | 130 | | |
| | | HILTON | 0601 | NO | 9 | 0.3 | 0.3 | 130 | 130 | 130 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.3 | 0.3 | 90 | 90 | 90 | | |
| 16 | Trans–1,3–Dichloropropylene | ALGOMA | 0300 | NO | 2 | 0.4 | 0.4 | 50 | 50 | 50 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.4 | 0.4 | 50 | 50 | 50 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.8 | 0.8 | 95 | 100 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.8 | 0.8 | 95 | 100 | 105 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | Trans–1,3–Dichloropropylene | HILTON | 0100 | NO | 5 | 0.8 | 0.8 | 95 | 95 | 95 | | |
| | | HILTON | 0601 | NO | 9 | 0.8 | 0.8 | 95 | 95 | 95 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.8 | 0.8 | 115 | 115 | 115 | | |
| 16 | Trichloroethylene | ALGOMA | 0300 | NO | 2 | 0.5 | 0.5 | 79 | 79 | 79 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.5 | 0.5 | 79 | 79 | 79 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.2 | 0.2 | 95 | 100 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.2 | 0.2 | 95 | 100 | 105 | | |
| | | HILTON | 0100 | NO | 5 | 0.2 | 0.2 | 115 | 115 | 115 | | |
| | | HILTON | 0601 | NO | 9 | 0.2 | 0.2 | 115 | 115 | 115 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.2 | 0.2 | 110 | 110 | 110 | | |
| 16 | Trichlorofluoromethane | ALGOMA | 0300 | NO | 2 | 0.5 | 0.5 | 78 | 78 | 78 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.5 | 0.5 | 78 | 78 | 78 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.3 | 100 | 110 | 120 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.3 | 0.3 | 100 | 110 | 120 | | |
| | | HILTON | 0100 | NO | 5 | 0.3 | 0.3 | 95 | 95 | 95 | | |
| | | HILTON | 0601 | NO | 9 | 0.3 | 0.3 | 95 | 95 | 95 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.3 | 0.3 | 100 | 100 | 100 | | |
| 16 | Vinyl Chloride | ALGOMA | 0300 | NO | 2 | 0.8 | 0.8 | 35 | 35 | 35 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.8 | 0.8 | 35 | 35 | 35 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.7 | 0.7 | 100 | 100 | 100 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.7 | 0.7 | 100 | 100 | 100 | | |
| | | HILTON | 0100 | NO | 5 | 0.7 | 0.7 | 80 | 80 | 80 | | |
| | | HILTON | 0601 | NO | 9 | 0.7 | 0.7 | 80 | 80 | 80 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.7 | 0.7 | 75 | 75 | 75 | | |
| 17 | Benzene | HILTON | 0100 | IH | 53 | 1.9 | 0.7 | 85 | 101 | 115 | | 3.6 |
| | | L.ERIE | 0400 | IM | 117 | 0.5 | 0.4 | 85 | 97 | 110 | 0.1 | 2.8 |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.1 | 5 | 28 | 79 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | Benzene | ALGOMA | 0700 | NO | 10 | 1.0 | 1.1 | 5 | 28 | 79 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.4 | 0.4 | 70 | 92 | 105 | | 1.1 |
| | | DOFASCO | 0400 | NO | 10 | 0.4 | 0.4 | 70 | 92 | 105 | | 4.0 |
| | | L.ERIE | 0100 | NO | 9 | 0.4 | 0.4 | 85 | 97 | 110 | | 2.0 |
| 17 | Ethylbenzene | ALGOMA | 1400 | IH | 6 | 1.6 | 0.8 | 33 | 33 | 33 | | |
| | | ALGOMA | 0300 | NO | 2 | 0.8 | 0.8 | 33 | 33 | 33 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.8 | 0.8 | 33 | 33 | 33 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.7 | 0.7 | 100 | 105 | 110 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.7 | 0.7 | 100 | 105 | 110 | | |
| | | DOFASCO | 0700 | NO | 12 | 0.7 | 0.7 | 100 | 105 | 110 | | 0.0 |
| | | HILTON | 0100 | NO | 5 | 0.7 | 0.7 | 105 | 105 | 105 | | |
| | | HILTON | 0601 | NO | 9 | 0.7 | 0.7 | 105 | 105 | 105 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.7 | 0.7 | 95 | 98 | 100 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.7 | 0.7 | 95 | 98 | 100 | | |
| 17 | Styrene | ALGOMA | 1400 | IH | 6 | 3.2 | 1.0 | 44 | 44 | 44 | | |
| | | HILTON | 0601 | IL | 9 | 0.8 | 0.8 | 102 | 102 | 102 | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 44 | 44 | 44 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 44 | 44 | 44 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.8 | 0.8 | 95 | 99 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.8 | 0.8 | 95 | 99 | 105 | | |
| | | HILTON | 0100 | NO | 5 | 0.8 | 0.8 | 102 | 102 | 102 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.8 | 0.8 | 90 | 90 | 90 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.8 | 0.8 | 90 | 90 | 90 | | |
| 17 | Toluene | DOFASCO | 0700 | IH | 12 | 6.4 | 0.8 | 90 | 96 | 105 | 1.0 | 4.6 |
| | | HILTON | 0601 | IH | 9 | 1.5 | 0.8 | 90 | 90 | 90 | | 2.5 |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 35 | 35 | 35 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 35 | 35 | 35 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV-3

# INTEGRATED STEEL MILLS

## NON-CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | Toluene | DOFASCO | 0300 | NO | 4 | 0.8 | 0.8 | 90 | 96 | 105 | | 4.0 |
| | | DOFASCO | 0400 | NO | 10 | 1.0 | 0.8 | 90 | 96 | 105 | | 4.8 |
| | | HILTON | 0100 | NO | 5 | 0.8 | 0.8 | 90 | 90 | 90 | | 3.8 |
| | | L.ERIE | 0100 | NO | 9 | 0.8 | 0.8 | 80 | 80 | 80 | | 3.8 |
| | | L.ERIE | 0400 | NO | 9 | 0.8 | 0.8 | 80 | 80 | 80 | | 4.0 |
| 17 | m-Xylene and p-Xylene | HILTON | 0601 | IL | 9 | 0.6 | 0.5 | 100 | 100 | 100 | | 0.5 |
| | | ALGOMA | 0300 | NO | 2 | 0.9 | 0.9 | 100 | 100 | 100 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.9 | 0.9 | 100 | 100 | 100 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.5 | 0.5 | 100 | 103 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.5 | 0.5 | 100 | 103 | 105 | | 0.1 |
| | | HILTON | 0100 | NO | 5 | 0.5 | 0.5 | 100 | 100 | 100 | | 0.1 |
| | | L.ERIE | 0100 | NO | 9 | 0.5 | 0.5 | 93 | 96 | 98 | | 0.1 |
| | | L.ERIE | 0400 | NO | 9 | 0.5 | 0.5 | 93 | 96 | 98 | | |
| 17 | o-Xylene | HILTON | 0601 | IL | 9 | 0.9 | 0.8 | 105 | 105 | 105 | | 0.1 |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 133 | 133 | 133 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 133 | 133 | 133 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.8 | 0.8 | 100 | 103 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.8 | 0.8 | 100 | 103 | 105 | | |
| | | HILTON | 0100 | NO | 5 | 0.8 | 0.8 | 105 | 105 | 105 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.8 | 0.8 | 85 | 148 | 210 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.8 | 0.8 | 85 | 148 | 210 | | |
| 19 | 1-Chloronaphthalene | ALGOMA | 0300 | NO | 2 | 0.5 | 0.5 | 50 | 50 | 50 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.5 | 0.5 | 50 | 50 | 50 | | |
| | | ALGOMA | 1400 | NO | 7 | 0.5 | 0.5 | 50 | 50 | 50 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.3 | 60 | 80 | 110 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.3 | 0.3 | 60 | 80 | 110 | | |
| | | HILTON | 0100 | NO | 5 | 0.3 | 0.3 | 70 | 70 | 70 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | 1–Chloronaphthalene | HILTON | 0601 | NO | 9 | 0.3 | 0.3 | 70 | 70 | 70 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.3 | 0.3 | 80 | 85 | 90 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.3 | 0.3 | 80 | 85 | 90 | | |
| 19 | 1–Methylnaphthalene | ALGOMA | 1400 | IH | 7 | 34.0 | 0.7 | 58 | 58 | 58 | | |
| | | ALGOMA | 0300 | NO | 2 | 0.7 | 0.7 | 58 | 58 | 58 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.7 | 0.7 | 58 | 58 | 58 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.7 | 0.7 | 60 | 75 | 95 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.7 | 0.7 | 60 | 75 | 95 | | |
| | | HILTON | 0100 | NO | 5 | 0.7 | 0.7 | 85 | 85 | 85 | | |
| | | HILTON | 0601 | NO | 9 | 0.7 | 0.7 | 85 | 85 | 85 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.7 | 0.7 | 90 | 95 | 100 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.7 | 0.7 | 90 | 95 | 100 | | |
| 19 | 2,4–Dinitrotoluene | ALGOMA | 0300 | NO | 2 | 0.6 | 0.6 | 123 | 123 | 123 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.6 | 0.6 | 123 | 123 | 123 | | |
| | | ALGOMA | 1400 | NO | 7 | 0.6 | 0.6 | 123 | 123 | 123 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.6 | 0.6 | 60 | 80 | 95 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.6 | 0.6 | 60 | 80 | 95 | | |
| | | HILTON | 0100 | NO | 5 | 0.6 | 0.6 | 130 | 130 | 130 | | |
| | | HILTON | 0601 | NO | 9 | 0.6 | 0.6 | 130 | 130 | 130 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.6 | 0.6 | 80 | 88 | 95 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.6 | 0.6 | 80 | 88 | 95 | | |
| 19 | 2,6–Dinitrotoluene | HILTON | 0601 | IL | 9 | 0.9 | 0.9 | 80 | 80 | 80 | 0.6 | |
| | | ALGOMA | 0300 | NO | 2 | 0.4 | 0.4 | 112 | 112 | 112 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.4 | 0.4 | 112 | 112 | 112 | | |
| | | ALGOMA | 1400 | NO | 7 | 0.4 | 0.4 | 112 | 112 | 112 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.9 | 0.9 | 65 | 83 | 95 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.9 | 0.9 | 65 | 83 | 95 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | 2,6–Dinitrotoluene | HILTON | 0100 | NO | 5 | 0.9 | 0.9 | 80 | 80 | 80 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.9 | 0.9 | 80 | 85 | 90 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.9 | 0.9 | 80 | 85 | 90 | | |
| 19 | 2–Chloronaphthalene | ALGOMA | 0300 | NO | 2 | 0.6 | 0.6 | 71 | 71 | 71 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.6 | 0.6 | 71 | 71 | 71 | | |
| | | ALGOMA | 1400 | NO | 7 | 0.6 | 0.6 | 71 | 71 | 71 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.5 | 0.5 | 55 | 80 | 100 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.5 | 0.5 | 55 | 80 | 100 | | |
| | | HILTON | 0100 | NO | 5 | 0.5 | 0.5 | 80 | 80 | 80 | | |
| | | HILTON | 0601 | NO | 9 | 0.5 | 0.5 | 80 | 80 | 80 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.5 | 0.5 | 100 | 103 | 105 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.5 | 0.5 | 100 | 103 | 105 | | |
| 19 | 2–Methylnaphthalene | ALGOMA | 1400 | IH | 7 | 112.5 | 0.9 | 53 | 53 | 53 | | |
| | | ALGOMA | 0300 | NO | 2 | 0.9 | 0.9 | 53 | 53 | 53 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.9 | 0.9 | 53 | 53 | 53 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.7 | 0.7 | 60 | 78 | 100 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.7 | 0.7 | 60 | 78 | 100 | | |
| | | HILTON | 0100 | NO | 5 | 0.7 | 0.7 | 80 | 80 | 80 | | |
| | | HILTON | 0601 | NO | 9 | 0.7 | 0.7 | 80 | 80 | 80 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.7 | 0.7 | 75 | 85 | 95 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.7 | 0.7 | 75 | 85 | 95 | | |
| 19 | 4–Bromophenyl Phenyl Ether | HILTON | 0100 | IL | 5 | 1.0 | 1.0 | 80 | 80 | 80 | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 85 | 85 | 85 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 85 | 85 | 85 | | |
| | | ALGOMA | 1400 | NO | 7 | 1.0 | 1.0 | 85 | 85 | 85 | | |
| | | DOFASCO | 0300 | NO | 4 | 1.0 | 1.0 | 65 | 80 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 1.0 | 1.0 | 65 | 80 | 105 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV-3

## INTEGRATED STEEL MILLS

### NON-CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | 4-Bromophenyl Phenyl Ether | HILTON | 0601 | NO | 9 | 1.0 | 1.0 | 80 | 80 | 80 | | |
| | | L.ERIE | 0100 | NO | 9 | 1.0 | 1.0 | 85 | 88 | 90 | | |
| | | L.ERIE | 0400 | NO | 9 | 1.0 | 1.0 | 85 | 88 | 90 | | |
| 19 | 4-Chlorophenyl Phenyl Ether | HILTON | 0100 | IL | 5 | 1.0 | 1.0 | 115 | 115 | 115 | | |
| | | ALGOMA | 0300 | NO | 2 | 0.8 | 0.8 | 88 | 88 | 88 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.8 | 0.8 | 88 | 88 | 88 | | |
| | | ALGOMA | 1400 | NO | 7 | 0.8 | 0.8 | 88 | 88 | 88 | | |
| | | DOFASCO | 0300 | NO | 4 | 1.0 | 1.0 | 65 | 82 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 1.0 | 1.0 | 65 | 82 | 105 | | |
| | | HILTON | 0601 | NO | 9 | 1.0 | 1.0 | 115 | 115 | 115 | | |
| | | L.ERIE | 0100 | NO | 9 | 1.0 | 1.0 | 80 | 85 | 90 | | |
| | | L.ERIE | 0400 | NO | 9 | 1.0 | 1.0 | 80 | 85 | 90 | | |
| 19 | 5-Nitro, Acenaphthene | ALGOMA | 0300 | NO | 2 | 0.9 | 0.9 | 124 | 124 | 124 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.9 | 0.9 | 124 | 124 | 124 | | |
| | | ALGOMA | 1400 | NO | 7 | 0.9 | 0.9 | 124 | 124 | 124 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.4 | 0.4 | 55 | 85 | 100 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.4 | 0.4 | 55 | 85 | 100 | | |
| | | HILTON | 0100 | NO | 5 | 0.4 | 0.4 | 105 | 105 | 105 | | |
| | | HILTON | 0601 | NO | 9 | 0.4 | 0.4 | 105 | 105 | 105 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.4 | 0.4 | 85 | 90 | 95 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.4 | 0.4 | 85 | 90 | 95 | | |
| 19 | Acenaphthene | ALGOMA | 1400 | IH | 7 | 15.7 | 0.8 | 70 | 70 | 70 | | |
| | | ALGOMA | 0300 | NO | 2 | 0.8 | 0.8 | 70 | 70 | 70 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.8 | 0.8 | 70 | 70 | 70 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.5 | 0.5 | 65 | 79 | 100 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.5 | 0.5 | 65 | 79 | 100 | | |
| | | HILTON | 0100 | NO | 5 | 0.5 | 0.5 | 70 | 70 | 70 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | Acenaphthene | HILTON | 0601 | NO | 9 | 0.5 | 0.5 | 70 | 70 | 70 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.5 | 0.5 | 95 | 98 | 100 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.5 | 0.5 | 95 | 98 | 100 | | |
| 19 | Acenaphthylene | ALGOMA | 0300 | NO | 2 | 0.5 | 0.5 | 72 | 72 | 72 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.5 | 0.5 | 72 | 72 | 72 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.3 | 65 | 77 | 100 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.3 | 0.3 | 65 | 77 | 100 | | |
| | | HILTON | 0100 | NO | 5 | 0.4 | 0.3 | 55 | 55 | 55 | | |
| | | HILTON | 0601 | NO | 9 | 0.3 | 0.3 | 55 | 55 | 55 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.3 | 0.3 | 90 | 95 | 100 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.3 | 0.3 | 90 | 95 | 100 | | |
| 19 | Anthracene | ALGOMA | 0300 | NO | 2 | 0.7 | 0.7 | 82 | 82 | 82 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.7 | 0.7 | 82 | 82 | 82 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.2 | 0.2 | 43 | 60 | 90 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.2 | 0.2 | 43 | 60 | 90 | | |
| | | HILTON | 0100 | NO | 5 | 0.2 | 0.2 | 75 | 75 | 75 | | |
| | | HILTON | 0601 | NO | 9 | 0.2 | 0.2 | 75 | 75 | 75 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.2 | 0.2 | 85 | 88 | 90 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.2 | 0.2 | 85 | 88 | 90 | | |
| 19 | Benzo(a)anthracene | DOFASCO | 0400 | IL | 10 | 0.7 | 0.4 | 14 | 34 | 50 | 1.0 | |
| | | HILTON | 0100 | IL | 5 | 1.4 | 0.4 | 30 | 30 | 30 | | |
| | | ALGOMA | 0300 | NO | 2 | 0.6 | 0.6 | 81 | 81 | 81 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.6 | 0.6 | 81 | 81 | 81 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.4 | 0.4 | 14 | 34 | 50 | | |
| | | HILTON | 0601 | NO | 9 | 0.4 | 0.4 | 30 | 30 | 30 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.4 | 0.4 | 80 | 90 | 100 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.4 | 0.4 | 80 | 90 | 100 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | Benzo(a)pyrene | HILTON | 0601 | IL | 116 | 0.8 | 0.9 | | 28 | 70 | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 6 | 66 | 117 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 6 | 66 | 117 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.8 | 0.8 | 3 | 35 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.9 | 0.8 | 3 | 35 | 105 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.8 | 0.8 | 18 | 64 | 100 | | |
| | | L.ERIE | 0400 | NO | 116 | 0.8 | 0.8 | 18 | 64 | 100 | | |
| 19 | Benzo(b)fluoranthene | HILTON | 0100 | IM | 5 | 1.3 | 0.6 | 40 | 40 | 40 | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 97 | 97 | 97 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 97 | 97 | 97 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.6 | 0.6 | 11 | 42 | 80 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.7 | 0.6 | 11 | 42 | 80 | | |
| | | HILTON | 0601 | NO | 9 | 0.6 | 0.6 | 40 | 40 | 40 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.6 | 0.6 | 50 | 53 | 55 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.6 | 0.6 | 50 | 53 | 55 | | |
| 19 | Benzo(g,h,i)perylene | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 92 | 92 | 92 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 92 | 92 | 92 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.6 | 0.6 | 9 | 28 | 44 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.6 | 0.6 | 9 | 28 | 44 | | |
| | | HILTON | 0100 | NO | 5 | 0.6 | 0.6 | 10 | 10 | 10 | | |
| | | HILTON | 0601 | NO | 9 | 0.6 | 0.6 | 10 | 10 | 10 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.6 | 0.6 | 36 | 76 | 115 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.6 | 0.6 | 36 | 76 | 115 | | |
| 19 | Benzo(k)fluoranthene | HILTON | 0100 | IH | 5 | 1.7 | 0.6 | 40 | 40 | 40 | | |
| | | DOFASCO | 0400 | IL | 10 | 0.7 | 0.6 | 5 | 39 | 80 | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 91 | 91 | 91 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 91 | 91 | 91 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV-3

# INTEGRATED STEEL MILLS

## NON-CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | Benzo(k)fluoranthene | DOFASCO | 0300 | NO | 4 | 0.6 | 0.6 | 5 | 39 | 80 | | |
| | | HILTON | 0601 | NO | 9 | 0.6 | 0.6 | 40 | 40 | 40 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.6 | 0.6 | 60 | 68 | 75 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.6 | 0.6 | 60 | 68 | 75 | | |
| 19 | Benzobutylphthalate | HILTON | 0100 | IL | 5 | 1.0 | 1.0 | 90 | 90 | 90 | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 88 | 88 | 88 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 88 | 88 | 88 | | |
| | | ALGOMA | 1400 | NO | 7 | 1.0 | 1.0 | 88 | 88 | 88 | | |
| | | DOFASCO | 0300 | NO | 4 | 1.0 | 1.0 | 25 | 41 | 60 | | |
| | | DOFASCO | 0400 | NO | 10 | 1.0 | 1.0 | 25 | 41 | 60 | | 0.1 |
| | | HILTON | 0601 | NO | 9 | 1.0 | 1.0 | 90 | 90 | 90 | | |
| | | L.ERIE | 0100 | NO | 9 | 1.0 | 1.0 | 60 | 63 | 65 | | |
| | | L.ERIE | 0400 | NO | 9 | 1.0 | 1.0 | 60 | 63 | 65 | | |
| 19 | Bis(2-chloroethoxyl)methane | ALGOMA | 0300 | NO | 2 | 0.9 | 0.9 | 69 | 69 | 69 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.9 | 0.9 | 69 | 69 | 69 | | |
| | | ALGOMA | 1400 | NO | 7 | 0.9 | 0.9 | 69 | 69 | 69 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.4 | 0.4 | 55 | 87 | 125 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.4 | 0.4 | 55 | 87 | 125 | | |
| | | HILTON | 0100 | NO | 5 | 0.4 | 0.4 | 85 | 85 | 85 | | |
| | | HILTON | 0601 | NO | 9 | 0.4 | 0.4 | 85 | 85 | 85 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.4 | 0.4 | 80 | 80 | 80 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.4 | 0.4 | 80 | 80 | 80 | | |
| 19 | Bis(2-chloroethyl)ether | ALGOMA | 0300 | NO | 2 | 0.4 | 0.4 | 73 | 73 | 73 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.4 | 0.4 | 73 | 73 | 73 | | |
| | | ALGOMA | 1400 | NO | 7 | 0.4 | 0.4 | 73 | 73 | 73 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.4 | 0.4 | 55 | 84 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.4 | 0.4 | 55 | 84 | 105 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | Bis(2–chloroethyl)ether | HILTON | 0100 | NO | 5 | 0.4 | 0.4 | 85 | 85 | 85 | | |
| | | HILTON | 0601 | NO | 9 | 0.4 | 0.4 | 85 | 85 | 85 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.4 | 0.4 | 70 | 83 | 95 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.4 | 0.4 | 70 | 83 | 95 | | |
| 19 | Bis(2–chloroisopropyl)ether | ALGOMA | 0300 | NO | 2 | 0.5 | 0.5 | 60 | 60 | 60 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.5 | 0.5 | 60 | 60 | 60 | | |
| | | ALGOMA | 1400 | NO | 7 | 0.5 | 0.5 | 60 | 60 | 60 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.7 | 0.7 | 55 | 85 | 110 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.7 | 0.7 | 55 | 85 | 110 | | |
| | | HILTON | 0100 | NO | 5 | 0.7 | 0.7 | 90 | 90 | 90 | | |
| | | HILTON | 0601 | NO | 9 | 0.7 | 0.7 | 90 | 90 | 90 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.7 | 0.7 | 75 | 78 | 80 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.7 | 0.7 | 75 | 78 | 80 | | |
| 19 | Bis(2–ethylhexyl)phthalate | ALGOMA | 1400 | IM | 7 | 4.4 | 0.6 | 99 | 99 | 99 | | 0.2 |
| | | L.ERIE | 0100 | IM | 9 | 0.9 | 0.6 | 95 | 120 | 145 | | |
| | | ALGOMA | 0300 | NO | 2 | 0.6 | 0.6 | 99 | 99 | 99 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.7 | 2.6 | 26 | 65 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.7 | 2.6 | 26 | 65 | 105 | | 0.0 |
| | | HILTON | 0100 | NO | 5 | 0.6 | 0.6 | 43 | 43 | 43 | | 0.1 |
| | | HILTON | 0601 | NO | 9 | 0.6 | 0.6 | 43 | 43 | 43 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.6 | 0.6 | 95 | 120 | 145 | | |
| 19 | Camphene | ALGOMA | 0300 | NO | 2 | 0.8 | 0.8 | 30 | 30 | 30 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.8 | 0.8 | 30 | 30 | 30 | | |
| | | ALGOMA | 1400 | NO | 7 | 0.8 | 0.8 | 30 | 30 | 30 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.3 | 5 | 25 | 60 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.3 | 0.3 | 5 | 25 | 60 | | |
| | | HILTON | 0100 | NO | 5 | 0.3 | 0.3 | 40 | 40 | 40 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | Camphene | HILTON | 0601 | NO | 9 | 0.3 | 0.3 | 40 | 40 | 40 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.3 | 0.3 | 38 | 40 | 41 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.3 | 0.3 | 38 | 40 | 41 | | |
| 19 | Chrysene | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 91 | 91 | 91 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.1 | 1.0 | 91 | 91 | 91 | | |
| | | DOFASCO | 0300 | NO | 4 | 1.0 | 1.0 | 10 | 32 | 44 | | |
| | | HILTON | 0601 | NO | 9 | 1.0 | 1.0 | 30 | 30 | 30 | | |
| | | L.ERIE | 0100 | NO | 9 | 1.0 | 1.0 | 90 | 98 | 105 | | |
| | | L.ERIE | 0400 | NO | 9 | 1.0 | 1.0 | 90 | 98 | 105 | | |
| 19 | Di–n–butyl Phthalate | ALGOMA | 0300 | NO | 2 | 0.3 | 0.3 | 95 | 95 | 95 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.3 | 0.3 | 95 | 95 | 95 | | |
| | | ALGOMA | 1400 | NO | 7 | 0.4 | 0.3 | 95 | 95 | 95 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.3 | 50 | 66 | 80 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.3 | 0.3 | 50 | 66 | 80 | | |
| | | HILTON | 0100 | NO | 5 | 0.3 | 0.3 | 60 | 60 | 60 | | |
| | | HILTON | 0601 | NO | 9 | 0.3 | 0.3 | 60 | 60 | 60 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.3 | 0.3 | 95 | 98 | 100 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.3 | 0.3 | 95 | 98 | 100 | | |
| 19 | Di–n–octyl Phthalate | DOFASCO | 0300 | IL | 4 | 0.7 | 0.4 | 11 | 33 | 55 | | |
| | | HILTON | 0601 | IL | 5 | 0.6 | | | | | | 0.1 |
| | | ALGOMA | 0300 | NO | 2 | 0.3 | 0.3 | 95 | 95 | 95 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.3 | 0.3 | 95 | 95 | 95 | | |
| | | ALGOMA | 1400 | NO | 7 | 0.3 | 0.3 | 95 | 95 | 95 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.5 | 0.4 | 11 | 33 | 55 | | 0.2 |
| | | HILTON | 0100 | NO | 5 | 0.5 | | | | | | 0.2 |
| | | L.ERIE | 0100 | NO | 9 | 0.4 | 0.4 | 100 | 108 | 115 | | 0.0 |
| | | L.ERIE | 0400 | NO | 9 | 0.4 | 0.4 | 100 | 108 | 115 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | Dibenz(a,h)anthracene | ALGOMA | 1400 | IM | 7 | 13.0 | 1.0 | 93 | 93 | 93 | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 93 | 93 | 93 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 93 | 93 | 93 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.3 | 8 | 28 | 43 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.3 | 0.3 | 8 | 28 | 43 | | |
| | | HILTON | 0100 | NO | 5 | 0.3 | 0.3 | 10 | 10 | 10 | | |
| | | HILTON | 0601 | NO | 9 | 0.3 | 0.3 | 10 | 10 | 10 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.3 | 0.3 | 29 | 70 | 110 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.3 | 0.3 | 29 | 70 | 110 | | |
| 19 | Diphenyl Ether | ALGOMA | 0300 | NO | 2 | 0.1 | | | | | | |
| | | ALGOMA | 0700 | NO | 8 | 0.1 | | | | | | |
| 19 | Diphenylamine | ALGOMA | 0300 | NO | 2 | 0.6 | 0.6 | 79 | 79 | 79 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.6 | 0.6 | 79 | 79 | 79 | | |
| | | ALGOMA | 1400 | NO | 7 | 0.6 | 0.6 | 79 | 79 | 79 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.1 | 0.1 | 60 | 75 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.1 | 0.1 | 60 | 75 | 105 | | |
| | | HILTON | 0100 | NO | 5 | 0.1 | 0.1 | 60 | 60 | 60 | | |
| | | HILTON | 0601 | NO | 9 | 0.1 | 0.1 | 60 | 60 | 60 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.1 | 0.1 | 10 | 10 | 10 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.1 | 0.1 | 10 | 10 | 10 | | |
| 19 | Fluoranthene | ALGOMA | 0300 | NO | 2 | 0.8 | 0.8 | 83 | 83 | 83 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 0.8 | 83 | 83 | 83 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.5 | 0.5 | 60 | 66 | 80 | | |
| | | HILTON | 0601 | NO | 9 | 0.5 | 0.5 | 65 | 65 | 65 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.5 | 0.5 | 90 | 95 | 100 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.5 | 0.5 | 90 | 95 | 100 | | |
| 19 | Fluorene | ALGOMA | 0300 | NO | 2 | 0.7 | 0.7 | 79 | 79 | 79 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | Fluorene | ALGOMA | 0700 | NO | 10 | 0.7 | 0.7 | 79 | 79 | 79 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.2 | 0.2 | 75 | 88 | 110 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.2 | 0.2 | 75 | 88 | 110 | | |
| | | HILTON | 0100 | NO | 5 | 0.2 | 0.2 | 125 | 125 | 125 | | |
| | | HILTON | 0601 | NO | 9 | 0.2 | 0.2 | 125 | 125 | 125 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.2 | 0.2 | 75 | 93 | 110 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.2 | 0.2 | 75 | 93 | 110 | | |
| 19 | Indeno(1,2,3–cd)pyrene | ALGOMA | 0300 | NO | 2 | 0.9 | 0.9 | 99 | 99 | 99 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.9 | 0.9 | 99 | 99 | 99 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.5 | 0.5 | 9 | 28 | 45 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.5 | 0.5 | 9 | 28 | 45 | | |
| | | HILTON | 0100 | NO | 5 | 0.5 | 0.5 | 10 | 10 | 10 | | |
| | | HILTON | 0601 | NO | 9 | 0.5 | 0.5 | 10 | 10 | 10 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.5 | 0.5 | 32 | 74 | 115 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.5 | 0.5 | 32 | 74 | 115 | | |
| 19 | Indole | ALGOMA | 1400 | IH | 7 | 325.9 | 0.5 | 48 | 48 | 48 | | |
| | | HILTON | 0601 | IL | 9 | 0.7 | 0.6 | 75 | 75 | 75 | | |
| | | ALGOMA | 0300 | NO | 2 | 0.5 | 0.5 | 48 | 48 | 48 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.5 | 0.5 | 48 | 48 | 48 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.6 | 0.6 | 60 | 81 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.6 | 0.6 | 60 | 81 | 105 | | |
| | | HILTON | 0100 | NO | 5 | 0.6 | 0.6 | 75 | 75 | 75 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.6 | 0.6 | 75 | 80 | 85 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.6 | 0.6 | 75 | 80 | 85 | | |
| 19 | N–Nitrosodi–n–propylamine | ALGOMA | 0300 | NO | 2 | 0.7 | 0.7 | 78 | 78 | 78 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.7 | 0.7 | 78 | 78 | 78 | | |
| | | ALGOMA | 1400 | NO | 7 | 0.7 | 0.7 | 78 | 78 | 78 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | N–Nitrosodi–n–propylamine | DOFASCO | 0300 | NO | 4 | 0.7 | 0.7 | 60 | 99 | 155 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.7 | 0.7 | 60 | 99 | 155 | | |
| | | HILTON | 0100 | NO | 5 | 0.7 | 0.7 | 85 | 85 | 85 | | |
| | | HILTON | 0601 | NO | 9 | 0.7 | 0.7 | 85 | 85 | 85 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.7 | 0.7 | 70 | 75 | 80 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.7 | 0.7 | 70 | 75 | 80 | | |
| 19 | N–Nitrosodiphenylamine | ALGOMA | 0300 | NO | 2 | 0.6 | 0.6 | 79 | 79 | 79 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.6 | 0.6 | 79 | 79 | 79 | | |
| | | ALGOMA | 1400 | NO | 7 | 0.6 | 0.6 | 79 | 79 | 79 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.1 | 0.1 | 60 | 75 | 105 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.1 | 0.1 | 60 | 75 | 105 | | |
| | | HILTON | 0100 | NO | 5 | 0.1 | 0.1 | 65 | 65 | 65 | | |
| | | HILTON | 0601 | NO | 9 | 0.1 | 0.1 | 65 | 65 | 65 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.1 | 0.1 | 85 | 90 | 95 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.1 | 0.1 | 85 | 90 | 95 | | |
| 19 | Naphthalene | ALGOMA | 0300 | NO | 2 | 0.7 | 1.2 | 11 | 70 | 111 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.7 | 1.2 | 11 | 70 | 111 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.2 | 0.2 | 41 | 84 | 120 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.2 | 0.2 | 41 | 84 | 120 | | |
| | | HILTON | 0100 | NO | 53 | 0.2 | 0.3 | | 52 | 95 | | |
| | | HILTON | 0601 | NO | 116 | 0.2 | 0.3 | | 52 | 95 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.2 | 0.2 | 43 | 70 | 90 | | |
| | | L.ERIE | 0400 | NO | 116 | 0.2 | 0.2 | 43 | 70 | 90 | 0.0 | |
| 19 | Perylene | ALGOMA | 0300 | NO | 2 | 0.7 | 0.7 | 82 | 82 | 82 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.7 | 0.7 | 82 | 82 | 82 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.2 | 0.2 | 12 | 32 | 55 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.2 | 0.2 | 12 | 32 | 55 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | Perylene | HILTON | 0100 | NO | 5 | 0.2 | 0.2 | 20 | 20 | 20 | | |
| | | HILTON | 0601 | NO | 9 | 0.2 | 0.2 | 20 | 20 | 20 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.2 | 0.2 | 50 | 75 | 100 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.2 | 0.2 | 50 | 75 | 100 | | |
| 19 | Phenanthrene | ALGOMA | 0300 | NO | 2 | 0.8 | 0.8 | 80 | 80 | 80 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.8 | 0.8 | 80 | 80 | 80 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.8 | 0.8 | 65 | 77 | 100 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.8 | 0.8 | 65 | 77 | 100 | 0.3 | |
| | | HILTON | 0601 | NO | 9 | 0.8 | 0.8 | 100 | 100 | 100 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.8 | 0.8 | 80 | 90 | 100 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.8 | 0.8 | 80 | 90 | 100 | | |
| 19 | Pyrene | ALGOMA | 0700 | IL | 10 | 1.1 | 0.8 | 83 | 83 | 83 | | |
| | | ALGOMA | 0300 | NO | 2 | 0.8 | 0.8 | 83 | 83 | 83 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.8 | 0.8 | 55 | 58 | 60 | | |
| | | HILTON | 0601 | NO | 9 | 0.8 | 0.8 | 75 | 75 | 75 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.8 | 0.8 | 95 | 95 | 95 | | |
| | | L.ERIE | 0400 | NO | 9 | 0.8 | 0.8 | 95 | 95 | 95 | | |
| 20 | 2,3,4,5–Tetrachlorophenol | HILTON | 0100 | IL | 5 | 1.0 | 1.0 | 95 | 95 | 95 | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 88 | 88 | 88 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 88 | 88 | 88 | | |
| | | DOFASCO | 0300 | NO | 4 | 1.0 | 1.0 | 65 | 73 | 80 | | |
| | | DOFASCO | 0400 | NO | 10 | 1.0 | 1.0 | 65 | 73 | 80 | | |
| | | HILTON | 0601 | NO | 9 | 1.0 | 1.0 | 95 | 95 | 95 | | |
| | | L.ERIE | 0100 | NO | 9 | 1.0 | 1.0 | 75 | 75 | 75 | | |
| | | ALGOMA | 0300 | NO | 2 | 0.4 | 0.4 | 69 | 69 | 69 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.4 | 0.4 | 69 | 69 | 69 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.3 | 85 | 90 | 95 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 2,3,4,5–Tetrachlorophenol | DOFASCO | 0400 | NO | 10 | 0.3 | 0.3 | 85 | 90 | 95 | | |
| | | HILTON | 0100 | NO | 5 | 0.3 | 0.3 | 100 | 100 | 100 | | |
| | | HILTON | 0601 | NO | 9 | 0.3 | 0.3 | 100 | 100 | 100 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.3 | 0.3 | 75 | 75 | 75 | | |
| 20 | 2,3,4–Trichlorophenol | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 53 | 53 | 53 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 53 | 53 | 53 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.8 | 0.8 | 80 | 83 | 85 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.8 | 0.8 | 80 | 83 | 85 | | |
| | | HILTON | 0100 | NO | 5 | 0.8 | 0.8 | 80 | 80 | 80 | | |
| | | HILTON | 0601 | NO | 9 | 0.8 | 0.8 | 80 | 80 | 80 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.8 | 0.8 | 100 | 100 | 100 | | |
| 20 | 2,3,5,6–Tetrachlorophenol | ALGOMA | 0300 | NO | 2 | 0.7 | 0.7 | 53 | 53 | 53 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.7 | 0.7 | 53 | 53 | 53 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.4 | 0.4 | 85 | 90 | 95 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.4 | 0.4 | 85 | 90 | 95 | | |
| | | HILTON | 0100 | NO | 5 | 0.4 | 0.4 | 100 | 100 | 100 | | |
| | | HILTON | 0601 | NO | 9 | 0.4 | 0.4 | 100 | 100 | 100 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.4 | 0.4 | 85 | 85 | 85 | | |
| 20 | 2,3,5–Trichlorophenol | ALGOMA | 0300 | NO | 2 | 0.9 | 0.9 | 56 | 56 | 56 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.9 | 0.9 | 56 | 56 | 56 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.3 | 70 | 80 | 90 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.3 | 0.3 | 70 | 80 | 90 | | |
| | | HILTON | 0100 | NO | 5 | 0.3 | 0.3 | 95 | 95 | 95 | | |
| | | HILTON | 0601 | NO | 9 | 0.3 | 0.3 | 95 | 95 | 95 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.3 | 0.3 | 100 | 100 | 100 | | |
| 20 | 2,4,5–Trichlorophenol | ALGOMA | 0300 | NO | 2 | 0.8 | 0.8 | 48 | 48 | 48 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.8 | 0.8 | 48 | 48 | 48 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 2,4,5–Trichlorophenol | DOFASCO | 0300 | NO | 4 | 0.5 | 0.5 | 80 | 85 | 90 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.5 | 0.5 | 80 | 85 | 90 | | |
| | | HILTON | 0100 | NO | 5 | 0.5 | 0.5 | 80 | 80 | 80 | | |
| | | HILTON | 0601 | NO | 9 | 0.5 | 0.5 | 80 | 80 | 80 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.5 | 0.5 | 95 | 95 | 95 | | |
| | | ALGOMA | 0300 | NO | 2 | 0.7 | 0.7 | 48 | 48 | 48 | | |
| 20 | 2,4,6–Trichlorophenol | ALGOMA | 0700 | NO | 10 | 0.7 | 0.7 | 48 | 48 | 48 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.9 | 0.9 | 60 | 73 | 85 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.9 | 0.9 | 60 | 73 | 85 | | |
| | | HILTON | 0100 | NO | 5 | 0.9 | 0.9 | 85 | 85 | 85 | | |
| | | HILTON | 0601 | NO | 9 | 0.9 | 0.9 | 85 | 85 | 85 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.9 | 0.9 | 105 | 105 | 105 | | |
| 20 | 2,4–Dichlorophenol | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 41 | 41 | 41 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 41 | 41 | 41 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.7 | 0.7 | 55 | 55 | 55 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.7 | 0.7 | 55 | 55 | 55 | | |
| | | HILTON | 0100 | NO | 5 | 0.7 | 0.7 | 80 | 80 | 80 | | |
| | | HILTON | 0601 | NO | 9 | 0.7 | 0.7 | 80 | 80 | 80 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.7 | 0.7 | 75 | 75 | 75 | | |
| 20 | 2,4–Dimethylphenol | ALGOMA | 0300 | NO | 2 | 0.6 | 0.6 | 40 | 40 | 40 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.6 | 0.6 | 40 | 40 | 40 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.2 | 0.2 | 9 | 10 | 10 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.2 | 0.2 | 9 | 10 | 10 | | |
| | | HILTON | 0100 | NO | 5 | 0.2 | 0.2 | 25 | 25 | 25 | | |
| | | HILTON | 0601 | NO | 9 | 0.2 | 0.2 | 25 | 25 | 25 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.2 | 0.2 | 41 | 41 | 41 | | |
| 20 | 2,4–Dinitrophenol | ALGOMA | 0300 | NO | 2 | 0.4 | 0.4 | 93 | 93 | 93 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 2,4–Dinitrophenol | ALGOMA | 0700 | NO | 10 | 0.4 | 0.4 | 93 | 93 | 93 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.1 | 0.1 | 25 | 43 | 60 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.1 | 0.1 | 25 | 43 | 60 | | |
| | | HILTON | 0100 | NO | 5 | 0.1 | 0.1 | 85 | 85 | 85 | | |
| | | HILTON | 0601 | NO | 9 | 0.1 | 0.1 | 85 | 85 | 85 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.1 | 0.1 | 90 | 90 | 90 | | |
| 20 | 2,6–Dichlorophenol | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 40 | 40 | 40 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 40 | 40 | 40 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.6 | 0.6 | 65 | 75 | 85 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.6 | 0.6 | 65 | 75 | 85 | | |
| | | HILTON | 0100 | NO | 5 | 0.6 | 0.6 | 85 | 85 | 85 | | |
| | | HILTON | 0601 | NO | 9 | 0.6 | 0.6 | 85 | 85 | 85 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.6 | 0.6 | 75 | 75 | 75 | | |
| 20 | 2–Chlorophenol | ALGOMA | 0300 | NO | 2 | 0.5 | 0.5 | 38 | 38 | 38 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.5 | 0.5 | 38 | 38 | 38 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.7 | 0.7 | 41 | 66 | 90 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.7 | 0.7 | 41 | 66 | 90 | | |
| | | HILTON | 0100 | NO | 5 | 0.7 | 0.7 | 70 | 70 | 70 | | |
| | | HILTON | 0601 | NO | 9 | 0.7 | 0.7 | 70 | 70 | 70 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.7 | 0.7 | 85 | 85 | 85 | | |
| 20 | 4,6–Dinitro–o–cresol | ALGOMA | 0300 | NO | 2 | 0.5 | 0.5 | 67 | 67 | 67 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.5 | 0.5 | 67 | 67 | 67 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.1 | 0.1 | 42 | 64 | 85 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.1 | 0.1 | 42 | 64 | 85 | | |
| | | HILTON | 0100 | NO | 5 | 0.1 | 0.1 | 110 | 110 | 110 | | |
| | | HILTON | 0601 | NO | 9 | 0.1 | 0.1 | 110 | 110 | 110 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.1 | 0.1 | 50 | 50 | 50 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 4–Chloro–3–methylphenol | ALGOMA | 0300 | NO | 2 | 0.7 | 0.7 | 51 | 51 | 51 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.7 | 0.7 | 51 | 51 | 51 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.9 | 0.9 | 50 | 68 | 85 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.9 | 0.9 | 50 | 68 | 85 | | |
| | | HILTON | 0100 | NO | 5 | 0.9 | 0.9 | 80 | 80 | 80 | | |
| | | HILTON | 0601 | NO | 9 | 0.9 | 0.9 | 80 | 80 | 80 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.9 | 0.9 | 90 | 90 | 90 | | |
| 20 | 4–Nitrophenol | HILTON | 0100 | IL | 5 | 1.0 | 1.0 | 125 | 125 | 125 | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 42 | 42 | 42 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 42 | 42 | 42 | | |
| | | DOFASCO | 0300 | NO | 4 | 1.0 | 1.0 | 26 | 32 | 38 | | |
| | | DOFASCO | 0400 | NO | 10 | 1.0 | 1.0 | 26 | 32 | 38 | | |
| | | HILTON | 0601 | NO | 9 | 1.0 | 1.0 | 125 | 125 | 125 | | |
| | | L.ERIE | 0100 | NO | 9 | 1.0 | 1.0 | 65 | 65 | 65 | | |
| 20 | Pentachlorophenol | ALGOMA | 0300 | NO | 2 | 0.4 | 0.4 | 95 | 95 | 95 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.4 | 0.4 | 95 | 95 | 95 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.9 | 0.9 | 60 | 73 | 85 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.9 | 0.9 | 60 | 73 | 85 | | |
| | | HILTON | 0100 | NO | 5 | 0.9 | 0.9 | 80 | 80 | 80 | | |
| | | HILTON | 0601 | NO | 9 | 0.9 | 0.9 | 80 | 80 | 80 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.9 | 0.9 | 60 | 60 | 60 | | |
| 20 | Phenol | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 51 | 51 | 51 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 51 | 51 | 51 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.5 | 0.5 | 24 | 35 | 45 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.5 | 0.5 | 24 | 35 | 45 | | |
| | | HILTON | 0100 | NO | 5 | 0.5 | 0.5 | 40 | 40 | 40 | | |
| | | HILTON | 0601 | NO | 9 | 0.5 | 0.5 | 40 | 40 | 40 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV-3

# INTEGRATED STEEL MILLS

## NON-CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Phenol | L.ERIE | 0100 | NO | 9 | 0.5 | 0.5 | 39 | 39 | 39 | | |
| 20 | m-Cresol | ALGOMA | 0300 | NO | 2 | 0.7 | 0.7 | 47 | 47 | 47 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.7 | 0.7 | 47 | 47 | 47 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.9 | 0.9 | 40 | 48 | 55 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.9 | 0.9 | 40 | 48 | 55 | | |
| | | HILTON | 0100 | NO | 5 | 0.9 | 0.9 | 65 | 65 | 65 | | |
| | | HILTON | 0601 | NO | 9 | 0.9 | 0.9 | 65 | 65 | 65 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.9 | 0.9 | 65 | 65 | 65 | | |
| 20 | o-Cresol | ALGOMA | 0300 | NO | 2 | 0.6 | 0.6 | 49 | 49 | 49 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.6 | 0.6 | 49 | 49 | 49 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.5 | 0.5 | 35 | 45 | 55 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.5 | 0.5 | 35 | 45 | 55 | | |
| | | HILTON | 0100 | NO | 5 | 0.5 | 0.5 | 60 | 60 | 60 | | |
| | | HILTON | 0601 | NO | 9 | 0.5 | 0.5 | 60 | 60 | 60 | | |
| | | L.ERIE | 0100 | NO | 9 | 0.5 | 0.5 | 70 | 70 | 70 | | |
| 20 | p-Cresol | HILTON | 0100 | IL | 5 | 1.0 | 1.0 | 60 | 60 | 60 | | |
| | | ALGOMA | 0300 | NO | 2 | 0.6 | 0.6 | 47 | 47 | 47 | | |
| | | ALGOMA | 0700 | NO | 10 | 0.6 | 0.6 | 47 | 47 | 47 | | |
| | | DOFASCO | 0300 | NO | 4 | 1.0 | 1.0 | 40 | 48 | 55 | | |
| | | DOFASCO | 0400 | NO | 10 | 1.0 | 1.0 | 40 | 48 | 55 | | |
| | | HILTON | 0601 | NO | 9 | 1.0 | 1.0 | 60 | 60 | 60 | | |
| | | L.ERIE | 0100 | NO | 9 | 1.0 | 1.0 | 75 | 75 | 75 | | |
| 23 | 1,2,3,4-Tetrachlorobenzene | L.ERIE | 0100 | IH | 9 | 101.9 | 0.9 | | | | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 57 | 57 | 57 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 57 | 57 | 57 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.9 | 0.9 | 2 | 45 | 88 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.9 | 0.9 | 2 | 45 | 88 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23 | 1,2,3,4–Tetrachlorobenzene | HILTON | 0100 | NO | 5 | 0.9 | 0.9 | 78 | 78 | 78 | | |
| | | HILTON | 0601 | NO | 9 | 0.9 | 0.9 | 78 | 78 | 78 | | |
| 23 | 1,2,3,5–Tetrachlorobenzene | L.ERIE | 0100 | IH | 9 | 60.4 | 0.5 | | | | | |
| | | ALGOMA | 0700 | IL | 10 | 1.1 | 1.0 | 104 | 104 | 104 | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 104 | 104 | 104 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.5 | 0.5 | 1 | 39 | 76 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.5 | 0.5 | 1 | 39 | 76 | | |
| | | HILTON | 0100 | NO | 5 | 0.5 | 0.5 | 72 | 72 | 72 | | |
| | | HILTON | 0601 | NO | 9 | 0.5 | 0.5 | 72 | 72 | 72 | | |
| 23 | 1,2,3–Trichlorobenzene | L.ERIE | 0100 | IH | 9 | 96.4 | 0.9 | | | | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 43 | 43 | 43 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 43 | 43 | 43 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.9 | 0.9 | 2 | 40 | 78 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.9 | 0.9 | 2 | 40 | 78 | | |
| | | HILTON | 0100 | NO | 5 | 0.9 | 0.9 | 58 | 58 | 58 | | |
| | | HILTON | 0601 | NO | 9 | 0.9 | 0.9 | 58 | 58 | 58 | | |
| 23 | 1,2,4,5–Tetrachlorobenzene | L.ERIE | 0100 | IH | 9 | 59.3 | 0.5 | | | | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 104 | 104 | 104 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.1 | 1.0 | 104 | 104 | 104 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.5 | 0.5 | 1 | 39 | 76 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.5 | 0.5 | 1 | 39 | 76 | | |
| | | HILTON | 0100 | NO | 5 | 0.5 | 0.5 | 72 | 72 | 72 | | |
| | | HILTON | 0601 | NO | 9 | 0.5 | 0.5 | 72 | 72 | 72 | | |
| 23 | 1,2,4–Trichlorobenzene | L.ERIE | 0100 | IH | 9 | 68.3 | 0.6 | | | | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 83 | 83 | 83 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.6 | 1.0 | 83 | 83 | 83 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.6 | 0.6 | 1 | 29 | 56 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23 | 1,2,4–Trichlorobenzene | DOFASCO | 0400 | NO | 10 | 0.6 | 0.6 | 1 | 29 | 56 | 1.9 | |
| | | HILTON | 0100 | NO | 5 | 0.6 | 0.6 | 60 | 60 | 60 | | |
| | | HILTON | 0601 | NO | 9 | 0.6 | 0.6 | 60 | 60 | 60 | | |
| 23 | 2,4,5–Trichlorotoluene | L.ERIE | 0100 | IH | 9 | 30.3 | 1.0 | | | | 2.7 | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 62 | 62 | 62 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 62 | 62 | 62 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.3 | 1 | 44 | 86 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.3 | 0.3 | 1 | 44 | 86 | | |
| | | HILTON | 0100 | NO | 5 | 0.3 | 0.3 | 86 | 86 | 86 | | |
| | | HILTON | 0601 | NO | 9 | 0.3 | 0.3 | 86 | 86 | 86 | | |
| 23 | Hexachlorobenzene | L.ERIE | 0100 | IH | 9 | 33.6 | 0.4 | | | | 0.2 | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 93 | 93 | 93 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 5.1 | 1 | 58 | 114 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.4 | 5.1 | 1 | 58 | 114 | 0.4 | |
| | | HILTON | 0100 | NO | 5 | 0.3 | 0.9 | 104 | 104 | 104 | | |
| | | HILTON | 0601 | NO | 9 | 0.3 | 0.9 | 104 | 104 | 104 | | |
| 23 | Hexachlorobutadiene | L.ERIE | 0100 | IH | 9 | 28.0 | 0.2 | | | | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 33 | 33 | 33 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 33 | 33 | 33 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.2 | 0.2 | 4 | 32 | 60 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.2 | 0.2 | 4 | 32 | 60 | | |
| | | HILTON | 0100 | NO | 5 | 0.2 | 0.2 | 50 | 50 | 50 | | |
| | | HILTON | 0601 | NO | 9 | 0.2 | 0.2 | 50 | 50 | 50 | | |
| 23 | Hexachlorocyclopentadiene | L.ERIE | 0100 | IH | 9 | 52.7 | 0.5 | | | | | |
| | | ALGOMA | 0700 | IL | 10 | 1.2 | 1.0 | 98 | 98 | 98 | | |
| | | HILTON | 0601 | IL | 9 | 0.6 | 0.5 | 5 | 5 | 5 | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 98 | 98 | 98 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23 | Hexachlorocyclopentadiene | DOFASCO | 0300 | NO | 4 | 0.5 | 0.5 | 5 | 33 | 60 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.5 | 0.5 | 5 | 33 | 60 | | |
| | | HILTON | 0100 | NO | 5 | 0.5 | 0.5 | 5 | 5 | 5 | | |
| 23 | Hexachloroethane | HILTON | 0601 | IH | 9 | 1.5 | 0.2 | 51 | 51 | 51 | | |
| | | L.ERIE | 0100 | IH | 9 | 19.1 | 0.2 | | | | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 28 | 28 | 28 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 28 | 28 | 28 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.2 | 2 | 21 | 40 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.2 | 0.2 | 2 | 21 | 40 | | |
| | | HILTON | 0100 | NO | 5 | 0.2 | 0.2 | 51 | 51 | 51 | | |
| 23 | Octachlorostyrene | L.ERIE | 0100 | IH | 9 | 29.2 | 0.3 | | | | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 68 | 68 | 68 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 68 | 68 | 68 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.3 | 0.3 | 3 | 57 | 110 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.3 | 0.3 | 3 | 57 | 110 | | |
| | | HILTON | 0100 | NO | 5 | 0.3 | 0.3 | 130 | 130 | 130 | | |
| | | HILTON | 0601 | NO | 9 | 0.3 | 0.3 | 130 | 130 | 130 | | |
| 23 | Pentachlorobenzene | L.ERIE | 0100 | IH | 9 | 23.5 | 0.2 | | | | | |
| | | HILTON | 0601 | IL | 9 | 0.4 | 0.2 | 98 | 98 | 98 | | |
| | | ALGOMA | 0300 | NO | 2 | 1.0 | 1.0 | 77 | 77 | 77 | | |
| | | ALGOMA | 0700 | NO | 10 | 1.0 | 1.0 | 77 | 77 | 77 | | |
| | | DOFASCO | 0300 | NO | 4 | 0.2 | 0.6 | | 42 | 84 | | |
| | | DOFASCO | 0400 | NO | 10 | 0.3 | 0.6 | | 42 | 84 | 0.4 | |
| | | HILTON | 0100 | NO | 5 | 0.2 | 0.2 | 98 | 98 | 98 | | |
| 24 | 2,3,7,8 TCDD | ALGOMA | 0700 | NO | 1 | 1.0 | | | | | | |
| | | DOFASCO | 0400 | NO | 2 | 0.6 | | | | | | |
| | | HILTON | 0601 | NO | 1 | 0.6 | | | | | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 | 2,3,7,8 TCDD | L.ERIE | 0100 | NO | 1 | 0.6 | | | | | | |
| 24 | Octachlorodibenzo–p–dioxin | ALGOMA | 0700 | NO | 1 | 1.0 | | | | | | |
| | | DOFASCO | 0400 | NO | 2 | 0.7 | | | | | | |
| | | HILTON | 0601 | NO | 1 | 0.7 | | | | | | |
| | | L.ERIE | 0100 | NO | 1 | 0.7 | | | | | | |
| 24 | Octachlorodibenzofuran | ALGOMA | 0700 | NO | 1 | 1.0 | | | | | | |
| | | DOFASCO | 0400 | NO | 2 | 0.7 | | | | | | |
| | | HILTON | 0601 | NO | 1 | 0.7 | | | | | | |
| | | L.ERIE | 0100 | NO | 1 | 0.7 | | | | | | |
| 24 | Total H6CDD | ALGOMA | 0700 | NO | 1 | 0.6 | | | | | | |
| | | DOFASCO | 0400 | NO | 2 | 0.7 | | | | | | |
| | | HILTON | 0601 | NO | 1 | 0.7 | | | | | | |
| | | L.ERIE | 0100 | NO | 1 | 0.7 | | | | | | |
| 24 | Total H6CDF | ALGOMA | 0700 | NO | 1 | 0.6 | | | | | | |
| | | DOFASCO | 0400 | NO | 2 | 0.8 | | | | | | |
| | | HILTON | 0601 | NO | 1 | 0.8 | | | | | | |
| | | L.ERIE | 0100 | NO | 1 | 0.8 | | | | | | |
| 24 | Total H7CDD | ALGOMA | 0700 | NO | 1 | 1.0 | | | | | | |
| | | DOFASCO | 0400 | NO | 2 | 0.6 | | | | | | |
| | | HILTON | 0601 | NO | 1 | 0.6 | | | | | | |
| | | L.ERIE | 0100 | NO | 1 | 0.6 | | | | | | |
| 24 | Total H7CDF | ALGOMA | 0700 | NO | 1 | 0.9 | | | | | | |
| | | DOFASCO | 0400 | NO | 2 | 0.7 | | | | | | |
| | | HILTON | 0601 | NO | 1 | 0.7 | | | | | | |
| | | L.ERIE | 0100 | NO | 1 | 0.7 | | | | | | |
| 24 | Total PCDD | ALGOMA | 0700 | NO | 1 | 1.0 | | | | | | |
| | | DOFASCO | 0400 | NO | 2 | 1.0 | | | | | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV-3

# INTEGRATED STEEL MILLS

## NON-CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 | Total PCDD | HILTON | 0601 | NO | 1 | 1.0 | | | | | | |
| | | L.ERIE | 0100 | NO | 1 | 1.0 | | | | | | |
| 24 | Total PCDF | ALGOMA | 0700 | NO | 1 | 1.0 | | | | | | |
| | | DOFASCO | 0400 | NO | 2 | 0.9 | | | | | | |
| | | HILTON | 0601 | NO | 1 | 0.9 | | | | | | |
| | | L.ERIE | 0100 | NO | 1 | 0.9 | | | | | | |
| 24 | Total TCDD | ALGOMA | 0700 | NO | 1 | 1.0 | | | | | | |
| | | DOFASCO | 0400 | NO | 2 | 0.6 | | | | | | |
| | | HILTON | 0601 | NO | 1 | 0.6 | | | | | | |
| | | L.ERIE | 0100 | NO | 1 | 0.6 | | | | | | |
| 24 | Total TCDF | ALGOMA | 0700 | NO | 1 | 1.0 | | | | | | |
| | | DOFASCO | 0400 | NO | 2 | 0.5 | | | | | | |
| | | HILTON | 0601 | NO | 1 | 0.5 | | | | | | |
| | | L.ERIE | 0100 | NO | 1 | 0.5 | | | | | | |
| 25 | Oil and Grease | ALGOMA | 0300 | IL | 9 | 0.9 | 0.5 | | | | | |
| 26 | Abietic Acid | ALGOMA | 0300 | NO | 2 | 0.2 | | | | | | |
| | | ALGOMA | 0700 | NO | 5 | 0.2 | | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.7 | | | | | | |
| | | DOFASCO | 0400 | NO | 3 | 0.7 | | | | | | |
| | | HILTON | 0100 | NO | 3 | 0.7 | | | | | | |
| | | HILTON | 0601 | NO | 3 | 0.7 | | | | | | |
| | | L.ERIE | 0100 | NO | 3 | 0.7 | | | | | | |
| 26 | Chlorodehydroabietic Acid | ALGOMA | 0300 | FL | 2 | 0.6 | | | | | | |
| | | ALGOMA | 0700 | NO | 5 | 0.2 | | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.7 | | | | | | |
| | | DOFASCO | 0400 | NO | 3 | 0.7 | | | | | | |
| | | HILTON | 0100 | NO | 3 | 0.7 | | | | | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 26 | Chlorodehydroabietic Acid | HILTON | 0601 | NO | 3 | 0.7 | | | | | | |
| | | L.ERIE | 0100 | NO | 3 | 0.7 | | | | | | |
| 26 | Dehydroabietic Acid | ALGOMA | 0700 | IL | 5 | 0.6 | | | | | | |
| | | ALGOMA | 0300 | NO | 2 | 0.5 | | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.9 | | | | | | |
| | | DOFASCO | 0400 | NO | 3 | 0.9 | | | | | | |
| | | HILTON | 0100 | NO | 3 | 0.9 | | | | | | |
| | | HILTON | 0601 | NO | 3 | 0.9 | | | | | | |
| | | L.ERIE | 0100 | NO | 3 | 0.9 | | | | | | |
| 26 | Isopimaric Acid | ALGOMA | 0700 | IL | 5 | 0.4 | | | | | | |
| | | ALGOMA | 0300 | NO | 2 | 0.2 | | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.7 | | | | | | |
| | | DOFASCO | 0400 | NO | 3 | 0.7 | | | | | | |
| | | HILTON | 0100 | NO | 3 | 0.7 | | | | | | |
| | | HILTON | 0601 | NO | 3 | 0.7 | | | | | | |
| | | L.ERIE | 0100 | NO | 3 | 0.7 | | | | | | |
| 26 | Levopimaric Acid | ALGOMA | 0300 | NO | 2 | 0.2 | | | | | | |
| | | ALGOMA | 0700 | NO | 5 | 0.2 | | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.8 | | | | | | |
| | | DOFASCO | 0400 | NO | 3 | 0.8 | | | | | | |
| | | HILTON | 0100 | NO | 3 | 0.8 | | | | | | |
| | | HILTON | 0601 | NO | 3 | 0.8 | | | | | | |
| | | L.ERIE | 0100 | NO | 3 | 0.8 | | | | | | |
| 26 | Neoabietic Acid | ALGOMA | 0300 | NO | 2 | 0.2 | | | | | | |
| | | ALGOMA | 0700 | NO | 5 | 0.2 | | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.5 | | | | | | |
| | | DOFASCO | 0400 | NO | 3 | 0.5 | | | | | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–3

# INTEGRATED STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 26 | Neoabietic Acid | HILTON | 0100 | NO | 3 | 0.5 | | | | | | |
| | | HILTON | 0601 | NO | 3 | 0.5 | | | | | | |
| | | L.ERIE | 0100 | NO | 3 | 0.5 | | | | | | |
| 26 | Oleic Acid | ALGOMA | 0700 | IL | 5 | 0.5 | | | | | | |
| | | ALGOMA | 0300 | NO | 1 | 0.2 | | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.9 | | | | | | |
| | | DOFASCO | 0400 | NO | 3 | 0.9 | | | | | | |
| | | HILTON | 0100 | NO | 3 | 0.9 | | | | | | |
| | | HILTON | 0601 | NO | 3 | 0.9 | | | | | | |
| | | L.ERIE | 0100 | NO | 3 | 0.9 | | | | | | |
| 26 | Pimaric Acid | ALGOMA | 0300 | NO | 2 | 0.2 | | | | | | |
| | | ALGOMA | 0700 | NO | 5 | 0.3 | | | | | | |
| | | DOFASCO | 0300 | NO | 4 | 0.5 | | | | | | |
| | | DOFASCO | 0400 | NO | 3 | 0.5 | | | | | | |
| | | HILTON | 0100 | NO | 3 | 0.5 | | | | | | |
| | | HILTON | 0601 | NO | 3 | 0.5 | | | | | | |
| | | L.ERIE | 0100 | NO | 3 | 0.5 | | | | | | |
| 27 | PCBT | ALGOMA | 0700 | NO | 1 | 0.5 | | | | | | |
| | | DOFASCO | 0400 | NO | 2 | 0.5 | | | | | | |
| | | HILTON | 0601 | NO | 1 | 0.5 | | | | | | |
| | | L.ERIE | 0100 | NO | 1 | 0.5 | | | | | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–4

# MINI AND SPECIALTY STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4a | Ammonia plus Ammonium | ATLAS | 0100 | NO | 4 | 0.3 | | | | | | |
| 4a | Total Kjeldahl Nitrogen | LASCO | 0100 | FL | 4 | 3.1 | | | | | | |
| | | ATLAS | 0100 | IL | 4 | 0.8 | | | | | | |
| 5b | TOC | ATLAS | 0100 | NO | 4 | 0.5 | 0.1 | | | | 0.0 | |
| 6 | Total Phosphorus | ATLAS | 0100 | NO | 44 | 0.2 | 0.1 | | | | 0.1 | |
| 8 | Volatile Suspended Solids | ATLAS | 0100 | IL | 332 | 0.5 | 0.5 | | | | 0.0 | |
| | | LASCO | 0100 | NO | 365 | 0.5 | 0.5 | | | | 0.0 | |
| 9 | Beryllium | ATLAS | 0100 | NO | 11 | 0.5 | 0.5 | | | | | |
| | | IVACO | 0200 | NO | 4 | 0.3 | | | | | | |
| | | LASCO | 0100 | NO | 11 | 1.0 | 1.0 | | | | | |
| 9 | Cadmium | ATLAS | 0100 | NO | 11 | | 0.5 | | | | | |
| | | IVACO | 0200 | NO | 4 | 0.5 | | | | | | |
| 9 | Chromium | LASCO | 0100 | IM | 11 | 1.0 | 0.6 | | | | | |
| 9 | Cobalt | ATLAS | 0100 | NO | 11 | 0.4 | 0.5 | | | | 0.1 | |
| | | IVACO | 0200 | NO | 4 | 0.3 | | | | | | |
| | | LASCO | 0100 | NO | 11 | 0.5 | 0.5 | | | | 0.3 | |
| 9 | Lead | ATLAS | 0100 | NO | 11 | 0.6 | 0.4 | | | | | |
| | | IVACO | 0200 | NO | 12 | 0.3 | 0.4 | | | | 0.1 | |
| 9 | Molybdenum | IVACO | 0200 | FL | 4 | 1.1 | | | | | | |
| 9 | Nickel | IVACO | 0200 | NO | 4 | 0.3 | | | | | | |
| 9 | Silver | ATLAS | 0100 | NO | 11 | 0.2 | 0.3 | | | | | |
| | | IVACO | 0200 | NO | 4 | 0.1 | | | | | | |
| | | LASCO | 0100 | NO | 11 | 0.5 | 0.3 | | | | | |
| 9 | Thallium | ATLAS | 0100 | NO | 11 | 0.8 | 0.7 | | | | | |
| | | IVACO | 0200 | NO | 4 | 0.6 | | | | | | |
| | | LASCO | 0100 | NO | 11 | 0.7 | 0.8 | | | | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–4

# MINI AND SPECIALTY STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | Vanadium | IVACO | 0200 | IL | 4 | 0.7 | | | | | | |
| | | LASCO | 0100 | IM | 11 | 1.1 | 0.7 | | | | | |
| | | ATLAS | 0100 | NO | 11 | 0.5 | 0.6 | | | | | |
| 10 | Antimony | ATLAS | 0100 | NO | 4 | 0.2 | | | | | | |
| | | IVACO | 0200 | NO | 4 | 0.4 | | | | | | |
| | | LASCO | 0100 | NO | 4 | 1.0 | | | | | | |
| 10 | Arsenic | IVACO | 0200 | IM | 4 | 0.8 | | | | | | |
| | | ATLAS | 0100 | NO | 4 | 0.2 | | | | | | |
| | | LASCO | 0100 | NO | 4 | 1.0 | | | | | | |
| 10 | Selenium | ATLAS | 0100 | NO | 4 | 0.2 | | | | | | |
| | | IVACO | 0200 | NO | 4 | 0.2 | | | | | | |
| | | LASCO | 0100 | NO | 4 | 1.0 | | | | | | |
| 11 | Chromium (hexavalent) | LASCO | 0100 | FL | 4 | 1.6 | | | | | | |
| | | ATLAS | 0100 | NO | 1 | 0.5 | 0.6 | | | | | |
| 16 | 1,1,2,2–Tetrachloroethane | ATLAS | 0100 | NO | 10 | 0.2 | 0.2 | 32 | 50 | 67 | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 45 | 65 | 105 | | |
| | | LASCO | 0100 | NO | 11 | 0.4 | 0.4 | | 47 | 94 | | |
| 16 | 1,1,2–Trichloroethane | ATLAS | 0100 | NO | 10 | 1.0 | 0.8 | 53 | 60 | 67 | 0.1 | |
| | | IVACO | 0200 | NO | 5 | 0.9 | | 83 | 83 | 84 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.8 | 0.8 | | 49 | 97 | | |
| 16 | 1,1–Dichloroethane | ATLAS | 0100 | NO | 10 | 0.6 | 0.6 | 14 | 35 | 56 | | |
| | | IVACO | 0200 | NO | 5 | 0.6 | | 70 | 80 | 100 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.6 | 0.6 | | 45 | 90 | | |
| 16 | 1,1–Dichloroethylene | IVACO | 0200 | IL | 5 | 0.4 | | 24 | 66 | 151 | | |
| | | ATLAS | 0100 | NO | 10 | 0.3 | 0.3 | 29 | 35 | 41 | | |
| | | LASCO | 0100 | NO | 11 | 0.5 | 0.5 | | 50 | 99 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–4

# MINI AND SPECIALTY STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 1,2–Dichlorobenzene | ATLAS | 0100 | NO | 10 | 0.4 | 0.4 | 60 | 75 | 89 | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | 103 | 108 | 119 | | 0.0 |
| | | LASCO | 0100 | NO | 11 | 0.4 | 0.4 | | 50 | 99 | | |
| 16 | 1,2–Dichloroethane | IVACO | 0200 | IL | 5 | 0.7 | | 87 | 89 | 94 | | 0.1 |
| | | ATLAS | 0100 | NO | 10 | 0.6 | 0.6 | 66 | 71 | 76 | | |
| | | LASCO | 0100 | NO | 11 | 0.6 | 0.6 | | 48 | 96 | | |
| 16 | 1,2–Dichloropropane | ATLAS | 0100 | NO | 10 | 0.7 | 0.7 | 54 | 56 | 57 | | |
| | | IVACO | 0200 | NO | 5 | 0.5 | | 72 | 79 | 93 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.6 | 0.6 | | 50 | 100 | | |
| 16 | 1,3–Dichlorobenzene | ATLAS | 0100 | NO | 10 | 0.6 | 0.6 | 38 | 47 | 56 | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | 90 | 112 | 157 | | 0.0 |
| | | LASCO | 0100 | NO | 11 | 0.9 | 0.9 | | 50 | 100 | | |
| 16 | 1,4–Dichlorobenzene | ATLAS | 0100 | NO | 10 | 0.5 | 0.5 | 60 | 72 | 84 | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 70 | 81 | 102 | | |
| | | LASCO | 0100 | NO | 11 | 0.6 | 0.6 | | 50 | 99 | | |
| 16 | Bromoform | ATLAS | 0100 | NO | 10 | 0.3 | 0.3 | 64 | 68 | 71 | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 70 | 88 | 97 | | 0.0 |
| | | LASCO | 0100 | NO | 11 | 0.5 | 0.5 | | 45 | 90 | | |
| 16 | Bromomethane | ATLAS | 0100 | NO | 10 | 0.7 | 0.7 | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.4 | | 17 | 128 | 184 | | 0.3 |
| | | LASCO | 0100 | NO | 11 | 0.7 | 0.7 | | 44 | 87 | | |
| 16 | Carbon Tetrachloride | ATLAS | 0100 | NO | 10 | 0.7 | 0.7 | 17 | 24 | 31 | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | 80 | 105 | 154 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.8 | 0.8 | | 47 | 94 | | |
| 16 | Chlorobenzene | ATLAS | 0100 | NO | 10 | 1.0 | 1.0 | 55 | 57 | 58 | | |
| | | IVACO | 0200 | NO | 5 | 0.8 | | 97 | 114 | 123 | | 0.1 |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–4

# MINI AND SPECIALTY STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | Chlorobenzene | LASCO | 0100 | NO | 11 | 0.7 | 0.7 | | 49 | 98 | | |
| 16 | Chloroform | ATLAS | 0100 | NO | 10 | 1.1 | 1.0 | 39 | 48 | 56 | 0.1 | |
| | | LASCO | 0100 | NO | 11 | 0.6 | 0.6 | | 46 | 92 | | |
| 16 | Chloromethane | ATLAS | 0100 | NO | 10 | 0.9 | 0.9 | 53 | 60 | 67 | | |
| | | IVACO | 0200 | NO | 5 | 0.5 | | 11 | 30 | 40 | | 0.2 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | | 49 | 97 | | |
| 16 | Cis–1,3–Dichloropropylene | ATLAS | 0100 | NO | 10 | 0.8 | 0.8 | 22 | 45 | 67 | | |
| | | IVACO | 0200 | NO | 5 | 0.4 | | 1 | 6 | 16 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.7 | 0.7 | | 47 | 93 | | |
| 16 | Dibromochloromethane | ATLAS | 0100 | NO | 10 | 0.9 | 0.9 | 43 | 52 | 61 | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | 73 | 82 | 100 | | 0.0 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | | 50 | 99 | | |
| 16 | Ethylene Dibromide | ATLAS | 0100 | NO | 10 | 0.5 | 0.5 | 48 | 55 | 61 | | |
| | | IVACO | 0200 | NO | 5 | 0.5 | | 77 | 80 | 86 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 1.0 | 1.0 | | 49 | 97 | | |
| 16 | Methylene Chloride | ATLAS | 0100 | NO | 10 | 2.6 | 37.3 | 50 | 71 | 92 | | |
| | | LASCO | 0100 | NO | 11 | 0.2 | 0.2 | | 50 | 99 | 0.4 | 0.2 |
| 16 | Tetrachloroethylene | ATLAS | 0100 | NO | 10 | 0.8 | 0.8 | 14 | 31 | 47 | | |
| | | LASCO | 0100 | NO | 11 | 0.5 | 0.5 | | 48 | 96 | | |
| 16 | Trans–1,2–Dichloroethylene | IVACO | 0200 | IL | 5 | 0.4 | | 61 | 68 | 72 | | 0.0 |
| | | ATLAS | 0100 | NO | 10 | 0.8 | 0.8 | 30 | 39 | 47 | | |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | | 51 | 101 | | |
| 16 | Trans–1,3–Dichloropropylene | ATLAS | 0100 | NO | 10 | 0.4 | 0.4 | 32 | 36 | 40 | | |
| | | IVACO | 0200 | NO | 5 | 0.7 | | 12 | 16 | 24 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | | 50 | 99 | | |
| 16 | Trichloroethylene | ATLAS | 0100 | NO | 10 | 0.5 | 0.5 | 51 | 55 | 58 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–4

# MINI AND SPECIALTY STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | Trichloroethylene | LASCO | 0100 | NO | 11 | 0.3 | 0.3 | | 49 | 97 | | |
| 16 | Trichlorofluoromethane | ATLAS | 0100 | NO | 10 | 0.5 | 0.5 | 41 | 44 | 47 | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | 3 | 50 | 73 | | 0.0 |
| | | LASCO | 0100 | NO | 11 | 0.5 | 0.5 | | 49 | 97 | | |
| 16 | Vinyl Chloride | ATLAS | 0100 | NO | 10 | 0.8 | 0.8 | 60 | 75 | 90 | | |
| | | IVACO | 0200 | NO | 5 | 0.6 | | 71 | 78 | 93 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | | 50 | 99 | | |
| 17 | Benzene | IVACO | 0200 | IH | 5 | 3.2 | | 70 | 75 | 77 | | 0.8 |
| | | ATLAS | 0100 | NO | 6 | 1.0 | 1.0 | | | | | |
| | | LASCO | 0100 | NO | 8 | 0.8 | | | | | | |
| 17 | Ethylbenzene | ATLAS | 0100 | NO | 6 | 0.8 | 0.8 | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | 93 | 94 | 97 | | 0.2 |
| | | LASCO | 0100 | NO | 8 | 0.7 | | | | | | |
| 17 | Styrene | ATLAS | 0100 | NO | 6 | 1.0 | 1.0 | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.4 | | 60 | 85 | 97 | | 0.1 |
| | | LASCO | 0100 | NO | 8 | 0.8 | | | | | | |
| 17 | Toluene | ATLAS | 0100 | NO | 6 | 1.0 | 1.0 | | | | | |
| | | LASCO | 0100 | NO | 8 | 0.6 | | | | | | |
| 17 | m–Xylene and p–Xylene | ATLAS | 0100 | NO | 6 | 0.9 | 0.9 | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | 94 | 153 | 183 | | 0.1 |
| | | LASCO | 0100 | NO | 8 | 0.7 | | | | | | |
| 17 | o–Xylene | ATLAS | 0100 | IL | 6 | 1.0 | 1.0 | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.5 | | 95 | 116 | 127 | | 0.1 |
| | | LASCO | 0100 | NO | 8 | 0.8 | | | | | | |
| 19 | 1–Chloronaphthalene | ATLAS | 0100 | NO | 9 | 0.5 | 0.5 | 28 | 30 | 31 | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 98 | 121 | 133 | | 0.0 |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–4

# MINI AND SPECIALTY STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | 1–Chloronaphthalene | LASCO | 0100 | NO | 11 | 0.4 | 0.4 | 49 | 69 | 89 | | |
| 19 | 1–Methylnaphthalene | ATLAS | 0100 | NO | 9 | 0.7 | 0.7 | 28 | 30 | 31 | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 103 | 122 | 131 | | 0.0 |
| | | LASCO | 0100 | NO | 11 | 0.2 | 0.2 | 61 | 73 | 85 | | |
| 19 | 2,4–Dinitrotoluene | ATLAS | 0100 | NO | 9 | 0.6 | 0.6 | 38 | 40 | 41 | | |
| | | IVACO | 0200 | NO | 5 | 0.8 | | 112 | 148 | 166 | | 0.3 |
| | | LASCO | 0100 | NO | 11 | 0.6 | 0.6 | 91 | 92 | 92 | | |
| 19 | 2,6–Dinitrotoluene | ATLAS | 0100 | NO | 9 | 0.4 | 0.4 | 38 | 40 | 42 | | |
| | | IVACO | 0200 | NO | 5 | 0.8 | | 108 | 144 | 162 | | 0.3 |
| | | LASCO | 0100 | NO | 11 | 0.7 | 0.7 | 75 | 82 | 88 | | |
| 19 | 2–Chloronaphthalene | ATLAS | 0100 | NO | 9 | 0.6 | 0.6 | 28 | 32 | 36 | | |
| | | IVACO | 0200 | NO | 5 | 0.5 | | 102 | 131 | 146 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.3 | 0.3 | 44 | 62 | 80 | | |
| 19 | 2–Methylnaphthalene | ATLAS | 0100 | NO | 9 | 0.9 | 0.9 | 32 | 32 | 32 | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 100 | 124 | 136 | | 0.0 |
| | | LASCO | 0100 | NO | 11 | 0.4 | 0.4 | 75 | 81 | 86 | | |
| 19 | 4–Bromophenyl Phenyl Ether | ATLAS | 0100 | NO | 9 | 1.0 | 1.0 | 93 | 94 | 95 | | |
| | | IVACO | 0200 | NO | 5 | 1.0 | | 124 | 134 | 139 | | 0.0 |
| | | LASCO | 0100 | NO | 11 | 0.5 | 1.0 | 78 | 81 | 83 | 1.3 | 0.7 |
| 19 | 4–Chlorophenyl Phenyl Ether | ATLAS | 0100 | NO | 9 | 0.8 | 0.8 | 84 | 87 | 89 | | |
| | | IVACO | 0200 | NO | 5 | 0.4 | | 105 | 127 | 138 | | 0.0 |
| | | LASCO | 0100 | NO | 11 | 0.6 | 0.6 | 84 | 92 | 99 | | |
| 19 | 5–Nitro, Acenaphthene | ATLAS | 0100 | NO | 9 | 0.9 | 0.9 | 42 | 47 | 52 | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | 127 | 148 | 158 | | 0.0 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 67 | 72 | 77 | | |
| 19 | Acenaphthene | ATLAS | 0100 | NO | 9 | 0.8 | 0.8 | 76 | 76 | 76 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–4

# MINI AND SPECIALTY STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | Acenaphthene | IVACO | 0200 | NO | 5 | 0.3 | | 104 | 122 | 131 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 76 | 83 | 89 | | |
| 19 | Acenaphthylene | ATLAS | 0100 | NO | 9 | 0.5 | 0.5 | 69 | 71 | 72 | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | 105 | 126 | 137 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 51 | 70 | 88 | | |
| 19 | Anthracene | ATLAS | 0100 | NO | 9 | 0.7 | 0.7 | 83 | 86 | 88 | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 121 | 136 | 144 | | 0.0 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 45 | 57 | 69 | | |
| 19 | Benzo(a)anthracene | ATLAS | 0100 | NO | 9 | 0.6 | 0.6 | 55 | 82 | 109 | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | 110 | 133 | 145 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 71 | 76 | 80 | | |
| 19 | Benzo(a)pyrene | ATLAS | 0100 | NO | 9 | 1.0 | 1.0 | 52 | 69 | 86 | | |
| | | IVACO | 0200 | NO | 5 | 0.4 | | 126 | 157 | 172 | | 0.2 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 62 | 67 | 72 | | |
| 19 | Benzo(b)fluoranthene | ATLAS | 0100 | NO | 9 | 1.0 | 1.0 | 59 | 79 | 99 | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | 98 | 126 | 140 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 80 | 90 | 99 | | |
| 19 | Benzo(g,h,i)perylene | ATLAS | 0100 | NO | 9 | 1.0 | 1.0 | 61 | 80 | 99 | | |
| | | IVACO | 0200 | NO | 5 | 0.5 | | 115 | 120 | 123 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 84 | 95 | 106 | 0.8 | 0.3 |
| 19 | Benzo(k)fluoranthene | ATLAS | 0100 | NO | 9 | 1.0 | 1.0 | 64 | 83 | 101 | | |
| | | IVACO | 0200 | NO | 5 | 0.4 | | 98 | 127 | 141 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 83 | 84 | 84 | | |
| 19 | Benzobutylphthalate | ATLAS | 0100 | IL | 9 | 1.1 | 1.0 | 13 | 17 | 20 | | |
| | | IVACO | 0200 | IM | 5 | 1.4 | | 148 | 179 | 195 | | 2.4 |
| | | LASCO | 0100 | NO | 11 | 0.2 | 0.2 | 80 | 86 | 92 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–4

# MINI AND SPECIALTY STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | Bis(2–chloroethoxyl)methane | ATLAS | 0100 | NO | 9 | 0.9 | 0.9 | 110 | 120 | 129 | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | 99 | 134 | 151 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 90 | 101 | 112 | | |
| 19 | Bis(2–chloroethyl)ether | ATLAS | 0100 | NO | 9 | 0.4 | 0.4 | 56 | 72 | 88 | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | 98 | 132 | 149 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.2 | 0.2 | 66 | 75 | 84 | | |
| 19 | Bis(2–chloroisopropyl)ether | ATLAS | 0100 | NO | 9 | 0.5 | 0.5 | 70 | 78 | 85 | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | 104 | 116 | 122 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.4 | 0.4 | 74 | 80 | 85 | | |
| 19 | Bis(2–ethylhexyl)phthalate | ATLAS | 0100 | IH | 9 | 2.5 | 11.1 | 40 | 83 | 125 | 0.2 | |
| | | IVACO | 0200 | IH | 5 | 7.9 | | 134 | 171 | 190 | | 1.0 |
| | | LASCO | 0100 | NO | 11 | 0.9 | 0.9 | 73 | 81 | 88 | | |
| 19 | Camphene | ATLAS | 0100 | NO | 9 | 0.8 | 0.8 | 30 | 31 | 32 | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 68 | 89 | 100 | | 0.0 |
| | | LASCO | 0100 | NO | 11 | 0.9 | 0.9 | 90 | 93 | 95 | | |
| 19 | Chrysene | ATLAS | 0100 | NO | 9 | 1.0 | 1.0 | 73 | 85 | 97 | | |
| | | IVACO | 0200 | NO | 5 | 0.6 | | 114 | 134 | 144 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 62 | 73 | 83 | | |
| 19 | Di–n–butyl Phthalate | ATLAS | 0100 | NO | 9 | 0.3 | 0.3 | 36 | 48 | 60 | | |
| | | IVACO | 0200 | NO | 5 | 0.4 | | 57 | 81 | 129 | | 4.7 |
| | | LASCO | 0100 | NO | 11 | 0.2 | 0.2 | 85 | 90 | 95 | | |
| 19 | Di–n–octyl Phthalate | ATLAS | 0100 | NO | 1 | 0.1 | | | | | | |
| | | IVACO | 0200 | NO | 2 | 0.1 | | | | | | |
| | | LASCO | 0100 | NO | 11 | 0.7 | 0.6 | 84 | 85 | 86 | 0.4 | 0.1 |
| 19 | Dibenz(a,h)anthracene | ATLAS | 0100 | NO | 9 | 1.0 | 1.0 | 59 | 82 | 104 | | |
| | | IVACO | 0200 | NO | 5 | 0.5 | | 47 | 53 | 65 | | 0.1 |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–4

# MINI AND SPECIALTY STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | Dibenz(a,h)anthracene | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 84 | 86 | 88 | | |
| 19 | Diphenylamine | ATLAS | 0100 | NO | 9 | 0.6 | 0.6 | 80 | 80 | 80 | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | 101 | 131 | 146 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 88 | 91 | 93 | | |
| 19 | Fluoranthene | ATLAS | 0100 | NO | 9 | 0.8 | 0.8 | 99 | 104 | 109 | | |
| | | IVACO | 0200 | NO | 5 | 0.9 | | 149 | 157 | 161 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 90 | 104 | 117 | | |
| 19 | Fluorene | ATLAS | 0100 | NO | 9 | 0.7 | 0.7 | 83 | 84 | 85 | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | 107 | 126 | 136 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 54 | 71 | 87 | | |
| 19 | Indeno(1,2,3–cd)pyrene | ATLAS | 0100 | NO | 9 | 0.9 | 0.9 | 62 | 82 | 102 | | |
| | | IVACO | 0200 | NO | 5 | 0.6 | | 12 | 15 | 22 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.4 | 0.4 | 77 | 78 | 79 | | |
| 19 | Indole | ATLAS | 0100 | NO | 9 | 0.5 | 0.5 | 41 | 51 | 61 | | |
| | | IVACO | 0200 | NO | 5 | 0.4 | | 115 | 139 | 151 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.8 | 0.8 | 82 | 83 | 84 | | |
| 19 | N–Nitrosodi–n–propylamine | ATLAS | 0100 | NO | 9 | 0.7 | 0.7 | 25 | 38 | 50 | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | 102 | 125 | 136 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.3 | 0.3 | 90 | 93 | 95 | | |
| 19 | N–Nitrosodiphenylamine | ATLAS | 0100 | NO | 9 | 0.6 | 0.6 | 85 | 89 | 92 | | |
| | | IVACO | 0200 | NO | 1 | 0.1 | | | | | | |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 84 | 86 | 87 | | |
| 19 | Naphthalene | ATLAS | 0100 | NO | 9 | 0.7 | 0.7 | 63 | 64 | 64 | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | 96 | 118 | 129 | | 0.0 |
| | | LASCO | 0100 | NO | 11 | 0.6 | 0.6 | 83 | 86 | 89 | | |
| 19 | Perylene | ATLAS | 0100 | NO | 9 | 0.7 | 0.7 | 29 | 46 | 62 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–4

# MINI AND SPECIALTY STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | Perylene | IVACO | 0200 | NO | 5 | 0.2 | | 112 | 124 | 130 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.6 | 0.6 | 78 | 82 | 86 | | |
| 19 | Phenanthrene | ATLAS | 0100 | NO | 9 | 0.8 | 0.8 | 91 | 92 | 92 | | |
| | | LASCO | 0100 | NO | 11 | 0.2 | 0.2 | 70 | 74 | 78 | | |
| 19 | Pyrene | ATLAS | 0100 | NO | 9 | 0.8 | 0.8 | 95 | 100 | 105 | | |
| | | IVACO | 0200 | NO | 5 | 0.4 | | 149 | 149 | 149 | | 0.1 |
| | | LASCO | 0100 | NO | 11 | 0.1 | 0.1 | 70 | 73 | 75 | | |
| 20 | 2,3,4,5–Tetrachlorophenol | ATLAS | 0100 | NO | 6 | 1.0 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 76 | 188 | 244 | | |
| | | LASCO | 0100 | NO | 8 | 1.0 | | | | | | |
| 20 | 2,3,4,6–Tetrachlorophenol | ATLAS | 0100 | NO | 6 | 0.4 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 115 | 302 | 396 | | |
| | | LASCO | 0100 | NO | 8 | 0.7 | | | | | | |
| 20 | 2,3,4–Trichlorophenol | ATLAS | 0100 | NO | 6 | 1.0 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 72 | 113 | 133 | | |
| | | LASCO | 0100 | NO | 8 | 0.7 | | | | | | |
| 20 | 2,3,5,6–Tetrachlorophenol | ATLAS | 0100 | NO | 6 | 0.7 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | 105 | 217 | 273 | | |
| | | LASCO | 0100 | NO | 8 | 1.0 | | | | | | |
| 20 | 2,3,5–Trichlorophenol | ATLAS | 0100 | NO | 6 | 0.9 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 105 | 143 | 162 | | |
| | | LASCO | 0100 | NO | 8 | 0.9 | | | | | | |
| 20 | 2,4,5–Trichlorophenol | ATLAS | 0100 | NO | 6 | 0.8 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 52 | 113 | 143 | | |
| | | LASCO | 0100 | NO | 8 | 0.9 | | | | | | |
| 20 | 2,4,6–Trichlorophenol | ATLAS | 0100 | NO | 6 | 0.7 | | | | | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX - IV
TABLE IV-4

# MINI AND SPECIALTY STEEL MILLS

## NON-CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 2,4,6-Trichlorophenol | IVACO | 0200 | NO | 5 | 0.1 | | 105 | 132 | 146 | | |
| | | LASCO | 0100 | NO | 8 | 0.9 | | | | | | |
| 20 | 2,4-Dichlorophenol | ATLAS | 0100 | NO | 6 | 1.0 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.6 | | 61 | 97 | 115 | | |
| | | LASCO | 0100 | NO | 8 | 0.7 | | | | | | |
| 20 | 2,4-Dimethylphenol | ATLAS | 0100 | NO | 6 | 0.6 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | 75 | 91 | 99 | | |
| | | LASCO | 0100 | NO | 8 | 0.8 | | | | | | |
| 20 | 2,4-Dinitrophenol | ATLAS | 0100 | NO | 6 | 0.4 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.8 | | 28 | 150 | 211 | | |
| | | LASCO | 0100 | NO | 8 | 0.6 | | | | | | |
| 20 | 2,6-Dichlorophenol | ATLAS | 0100 | NO | 6 | 1.0 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 1.0 | | 59 | 96 | 115 | | |
| | | LASCO | 0100 | NO | 8 | 1.0 | | | | | | |
| 20 | 2-Chlorophenol | ATLAS | 0100 | NO | 6 | 0.5 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 111 | 112 | 112 | | |
| | | LASCO | 0100 | NO | 8 | 1.0 | | | | | | |
| 20 | 4,6-Dinitro-o-cresol | ATLAS | 0100 | NO | 6 | 0.5 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | 24 | 112 | 156 | | |
| | | LASCO | 0100 | NO | 8 | 0.8 | | | | | | |
| 20 | 4-Chloro-3-methylphenol | ATLAS | 0100 | NO | 6 | 0.7 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 68 | 101 | 118 | | |
| | | LASCO | 0100 | NO | 8 | 0.8 | | | | | | |
| 20 | 4-Nitrophenol | ATLAS | 0100 | NO | 6 | 1.0 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | 37 | 132 | 179 | | |
| | | LASCO | 0100 | NO | 8 | 0.9 | | | | | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–4

# MINI AND SPECIALTY STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Pentachlorophenol | ATLAS | 0100 | NO | 6 | 0.4 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 97 | 106 | 111 | | |
| | | LASCO | 0100 | NO | 8 | 0.9 | | | | | | |
| 20 | Phenol | ATLAS | 0100 | NO | 6 | 1.0 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | 44 | 60 | 68 | | |
| | | LASCO | 0100 | NO | 8 | 0.4 | | | | | | |
| 20 | m–Cresol | ATLAS | 0100 | NO | 6 | 0.7 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 101 | 106 | 116 | | |
| | | LASCO | 0100 | NO | 8 | 0.7 | | | | | | |
| 20 | o–Cresol | ATLAS | 0100 | NO | 6 | 0.6 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | 67 | 88 | 98 | | |
| | | LASCO | 0100 | NO | 8 | 0.7 | | | | | | |
| 20 | p–Cresol | ATLAS | 0100 | NO | 6 | 0.6 | | | | | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | 52 | 85 | 101 | | |
| | | LASCO | 0100 | NO | 8 | 0.7 | | | | | | |
| 23 | 1,2,3,4–Tetrachlorobenzene | ATLAS | 0100 | NO | 8 | 1.0 | 1.0 | 74 | 86 | 97 | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | | 49 | 73 | | |
| | | LASCO | 0100 | NO | 11 | 0.6 | 0.6 | 84 | 85 | 85 | | |
| 23 | 1,2,3,5–Tetrachlorobenzene | ATLAS | 0100 | IL | 8 | 1.1 | 1.0 | 60 | 80 | 100 | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | | 48 | 72 | | |
| | | LASCO | 0100 | NO | 11 | 0.8 | 0.8 | 87 | 88 | 88 | | |
| 23 | 1,2,3–Trichlorobenzene | ATLAS | 0100 | NO | 8 | 1.0 | 1.0 | 42 | 63 | 83 | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | | 46 | 69 | | |
| | | LASCO | 0100 | NO | 11 | 1.0 | 1.0 | 71 | 81 | 90 | | |
| 23 | 1,2,4,5–Tetrachlorobenzene | ATLAS | 0100 | IL | 8 | 1.1 | 1.0 | 60 | 80 | 100 | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | | 45 | 68 | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–4

# MINI AND SPECIALTY STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23 | 1,2,4,5–Tetrachlorobenzene | LASCO | 0100 | NO | 11 | 0.8 | 0.8 | 69 | 78 | 87 | | |
| 23 | 1,2,4–Trichlorobenzene | ATLAS | 0100 | IH | 8 | 1.8 | 1.0 | 32 | 54 | 76 | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | | 54 | 81 | | |
| | | LASCO | 0100 | NO | 11 | 1.0 | 1.0 | 78 | 84 | 89 | | |
| 23 | 2,4,5–Trichlorotoluene | ATLAS | 0100 | NO | 8 | 1.0 | 1.0 | 35 | 61 | 87 | | |
| | | IVACO | 0200 | NO | 5 | 0.1 | | | 46 | 69 | | |
| | | LASCO | 0100 | NO | 11 | 0.8 | 0.8 | 88 | 94 | 99 | | |
| 23 | Hexachlorobenzene | ATLAS | 0100 | NO | 8 | 1.0 | 1.0 | 108 | 109 | 109 | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | | 51 | 76 | | |
| | | LASCO | 0100 | NO | 11 | 0.6 | 0.6 | 35 | 62 | 89 | | |
| 23 | Hexachlorobutadiene | ATLAS | 0100 | NO | 8 | 1.0 | 1.0 | 26 | 45 | 64 | | |
| | | IVACO | 0200 | NO | 5 | 0.3 | | | 50 | 75 | | |
| | | LASCO | 0100 | NO | 11 | 0.8 | 0.8 | 82 | 86 | 90 | | |
| 23 | Hexachlorocyclopentadiene | ATLAS | 0100 | NO | 8 | 1.0 | 1.0 | 42 | 47 | 51 | | |
| | | IVACO | 0200 | NO | 5 | 0.4 | | | 43 | 65 | | |
| | | LASCO | 0100 | NO | 11 | 1.0 | 1.0 | 51 | 70 | 89 | | |
| 23 | Hexachloroethane | ATLAS | 0100 | NO | 8 | 1.0 | 1.0 | 62 | 62 | 62 | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | | 51 | 77 | | |
| | | LASCO | 0100 | NO | 11 | 0.8 | 0.8 | 83 | 86 | 89 | | |
| 23 | Octachlorostyrene | ATLAS | 0100 | NO | 8 | 1.0 | 1.0 | 38 | 40 | 42 | | |
| | | IVACO | 0200 | NO | 5 | 0.4 | | | 47 | 71 | | |
| | | LASCO | 0100 | NO | 11 | 0.6 | 0.6 | 54 | 73 | 91 | | |
| 23 | Pentachlorobenzene | ATLAS | 0100 | NO | 8 | 1.0 | 1.0 | 112 | 115 | 118 | | |
| | | IVACO | 0200 | NO | 5 | 0.2 | | | 48 | 72 | | |
| | | LASCO | 0100 | NO | 11 | 0.8 | 0.8 | 67 | 76 | 85 | | |
| 24 | 2,3,7,8 TCDD | ATLAS | 0100 | NO | 2 | 1.0 | | | | | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

APPENDIX IV
TABLE IV–4

# MINI AND SPECIALTY STEEL MILLS

## NON–CANDIDATE PARAMETERS

| ATG | PARAMETER | PLANT | POINT | CLASS | TNS | MONAVR | GAAAVR | DAAMIRC | DAAAVRC | DAAMARC | FAAAVD | AAUAVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 | 2,3,7,8 TCDD | LASCO | 0100 | NO | 2 | 1.0 | | | | | | |
| 24 | Octachlorodibenzo–p–dioxin | ATLAS | 0100 | FL | 2 | 12.5 | | | | | | |
| | | LASCO | 0100 | NO | 2 | 0.7 | | | | | | |
| 24 | Octachlorodibenzofuran | ATLAS | 0100 | FL | 2 | 2.5 | | | | | | |
| | | LASCO | 0100 | NO | 2 | 0.3 | | | | | | |
| 24 | Total H6CDD | ATLAS | 0100 | NO | 2 | 1.0 | | | | | | |
| | | LASCO | 0100 | NO | 2 | 0.7 | | | | | | |
| 24 | Total H6CDF | ATLAS | 0100 | NO | 2 | 1.0 | | | | | | |
| | | LASCO | 0100 | NO | 2 | 1.0 | | | | | | |
| 24 | Total H7CDD | ATLAS | 0100 | NO | 2 | 1.0 | | | | | | |
| | | LASCO | 0100 | NO | 2 | 0.7 | | | | | | |
| 24 | Total H7CDF | ATLAS | 0100 | NO | 2 | 1.0 | | | | | | |
| | | LASCO | 0100 | NO | 2 | 0.3 | | | | | | |
| 24 | Total PCDD | ATLAS | 0100 | NO | 2 | 1.0 | | | | | | |
| | | LASCO | 0100 | NO | 2 | 0.5 | | | | | | |
| 24 | Total PCDF | ATLAS | 0100 | NO | 2 | 1.0 | | | | | | |
| | | LASCO | 0100 | NO | 2 | 0.7 | | | | | | |
| 24 | Total TCDD | ATLAS | 0100 | NO | 2 | 1.0 | | | | | | |
| | | LASCO | 0100 | NO | 2 | 1.0 | | | | | | |
| 24 | Total TCDF | ATLAS | 0100 | NO | 2 | 1.0 | | | | | | |
| | | LASCO | 0100 | NO | 2 | 0.7 | | | | | | |
| 27 | PCBT | ATLAS | 0100 | NO | 1 | 0.5 | | | | | | |
| | | LASCO | 0100 | NO | 2 | 1.0 | | | | | | |

NOTE: A glossary of terms used in this summary is given in the explanatory notes section.

# APPENDIX V

## Effluent Monitoring Data

### Classification and Concentration Ratios for Effluent Streams with QA/QC Data

APPENDIX V

TABLE V-1
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

ALGOMA STEEL
CONTROL POINT: 0300 STREAM: 30 INCH SEWER OUTFALL
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 2 | Cyanide Total | 1 | 9 | FH | 78 | 67 | 56 | 1.00 | 26.00 | 6.80 |
| 3 | Hydrogen Ion (pH) | 1 | 266 | FH | 100 | 100 | 100 | .00 | .00 | .00 |
| 4a | Ammonia plus Ammonium | 1 | 9 | FL | 67 | 22 | 11 | .52 | 10.76 | 2.18 |
| 4b | Nitrate+Nitrite | 1 | 2 | FL | 100 | 0 | 0 | 1.20 | 1.36 | 1.28 |
| 5a | OOC | 1 | 9 | FM | 100 | 100 | 44 | 3.00 | 15.40 | 5.83 |
| 5b | TOC | 3 | 3 | NO | 0 | 0 | 0 | .41 | .76 | .55 |
| 6 | Total Phosphorus | 2 | 9 | IM | 11 | 11 | 0 | .10 | 2.40 | .38 |
| 7 | Specific Conductance | 1 | 2 | FH | 100 | 100 | 100 | 27.00 | 30.00 | 28.50 |
| 8 | Total Suspended Solids | 1 | 265 | IL | 26 | 10 | 5 | .10 | 254.00 | 2.88 |
| | Volatile Suspended Solids | 2 | 263 | IH | 2 | 1 | 1 | .10 | 8.72 | .21 |
| 9 | Aluminum | 2 | 2 | FL | 50 | 0 | 0 | .53 | 1.03 | .80 |
| | Beryllium | 3 | 2 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Cadmium | 3 | 2 | NO | 0 | 0 | 0 | .00 | 1.00 | .50 |
| | Chromium | 3 | 9 | NO | 0 | 0 | 0 | .25 | .75 | .55 |
| | Cobalt | 3 | 2 | NO | 0 | 0 | 0 | .20 | .75 | .45 |
| | Copper | 3 | 2 | NO | 0 | 0 | 0 | .70 | 1.00 | .90 |
| | Lead | 2 | 9 | IL | 11 | 0 | 0 | .10 | 1.07 | .40 |
| | Molybdenum | 3 | 2 | NO | 0 | 0 | 0 | .25 | 1.00 | .60 |
| | Nickel | 3 | 2 | NO | 0 | 0 | 0 | .20 | 1.00 | .60 |
| | Silver | 3 | 2 | NO | 0 | 0 | 0 | .13 | .50 | .30 |
| | Thallium | 3 | 2 | NO | 0 | 0 | 0 | .33 | 1.00 | .67 |
| | Vanadium | 3 | 2 | NO | 0 | 0 | 0 | .30 | 1.00 | .63 |
| | Zinc | 1 | 8 | IM | 38 | 25 | 0 | .50 | 3.30 | 1.30 |
| 10 | Antimony | 3 | 2 | NO | 0 | 0 | 0 | .00 | .00 | .00 |
| | Arsenic | 3 | 2 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Selenium | 3 | 2 | NO | 0 | 0 | 0 | .00 | .20 | .20 |
| 12 | Mercury | 2 | 2 | FL | 50 | 0 | 0 | .50 | 1.20 | .85 |
| 14 | Phenolics (4AAP) | 1 | 9 | FM | 100 | 100 | 44 | 2.00 | 19.50 | 7.94 |
| 15 | Sulphide | 2 | 2 | FL | 50 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| 16 | 1,1,2,2-Tetrachloroethane | 3 | 2 | NO | 0 | 0 | 0 | .23 | .23 | .23 |
| | 1,1,2-Trichloroethane | 3 | 2 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | 1,1-Dichloroethane | 3 | 2 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 1,1-Dichloroethylene | 3 | 2 | NO | 0 | 0 | 0 | .32 | .32 | .32 |
| | 1,2-Dichlorobenzene | 3 | 2 | NO | 0 | 0 | 0 | .43 | .50 | .46 |
| | 1,2-Dichloroethane | 3 | 2 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 1,2-Dichloropropane | 3 | 2 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | 1,3-Dichlorobenzene | 3 | 2 | NO | 0 | 0 | 0 | .64 | .64 | .64 |
| | 1,4-Dichlorobenzene | 3 | 2 | NO | 0 | 0 | 0 | .53 | .53 | .53 |
| | Bromoform | 3 | 2 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Bromomethane | 3 | 2 | NO | 0 | 0 | 0 | .70 | .70 | .70 |
| | Carbon Tetrachloride | 3 | 2 | NO | 0 | 0 | 0 | .69 | .69 | .69 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
GROUP 2 = PARAMETERS NOT SELECTED BUT DETECTED ABOVE RMDL
GROUP 3 = PARAMETERS NOT DETECTED ABOVE RMDL
TNS = NUMBER OF VALID SAMPLES
%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-1 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

ALGOMA STEEL
CONTROL POINT: 0300 STREAM: 30 INCH SEWER OUTFALL
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 16 | Chlorobenzene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Chloroform | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Chloromethane | 3 | 2 | NO | 0 | 0 | 0 | .89 | .89 | .89 |
| | Cis-1,3-Dichloropropylene | 3 | 2 | NO | 0 | 0 | 0 | .79 | .79 | .79 |
| | Dibromochloromethane | 3 | 2 | NO | 0 | 0 | 0 | .91 | .91 | .91 |
| | Ethylene Dibromide | 3 | 2 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Methylene Chloride | 3 | 2 | NO | 0 | 0 | 0 | .77 | .77 | .77 |
| | Tetrachloroethylene | 3 | 2 | NO | 0 | 0 | 0 | .82 | .82 | .82 |
| | Trans-1,2-Dichloroethylene | 3 | 2 | NO | 0 | 0 | 0 | .79 | .79 | .79 |
| | Trans-1,3-Dichloropropylene | 3 | 2 | NO | 0 | 0 | 0 | .36 | .36 | .36 |
| | Trichloroethylene | 3 | 2 | NO | 0 | 0 | 0 | .47 | .47 | .47 |
| | Trichlorofluoromethane | 3 | 2 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Vinyl Chloride | 3 | 2 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| 17 | Benzene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Ethylbenzene | 3 | 2 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | Styrene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Toluene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | m-Xylene and p-Xylene | 3 | 2 | NO | 0 | 0 | 0 | .91 | .91 | .91 |
| | o-Xylene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| 19 | 1-Chloronaphthalene | 3 | 2 | NO | 0 | 0 | 0 | .52 | .52 | .52 |
| | 1-Methylnaphthalene | 3 | 2 | NO | 0 | 0 | 0 | .66 | .66 | .66 |
| | 2,4-Dinitrotoluene | 3 | 2 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 3 | 2 | NO | 0 | 0 | 0 | .43 | .43 | .43 |
| | 2-Chloronaphthalene | 3 | 2 | NO | 0 | 0 | 0 | .61 | .61 | .61 |
| | 2-Methylnaphthalene | 3 | 2 | NO | 0 | 0 | 0 | .91 | .91 | .91 |
| | 4-Bromophenyl Phenyl Ether | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 3 | 2 | NO | 0 | 0 | 0 | .78 | .78 | .78 |
| | 5-Nitro, Acenaphthene | 3 | 2 | NO | 0 | 0 | 0 | .88 | .88 | .88 |
| | Acenaphthene | 3 | 2 | NO | 0 | 0 | 0 | .77 | .77 | .77 |
| | Acenaphthylene | 3 | 2 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Anthracene | 3 | 2 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Benzo(a)anthracene | 3 | 2 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | Benzo(a)pyrene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzo(b)fluoranthene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzo(g,h,i)perylene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzo(k)fluoranthene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzobutylphthalate | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Bis(2-chloroethoxyl)methane | 3 | 2 | NO | 0 | 0 | 0 | .89 | .89 | .89 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
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%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-1 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

ALGOMA STEEL
CONTROL POINT: 0300 STREAM: 30 INCH SEWER OUTFALL
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Bis(2-chloroethyl)ether | 3 | 2 | NO | 0 | 0 | 0 | .41 | .41 | .41 |
| | Bis(2-chloroisopropyl)ether | 3 | 2 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Bis(2-ethylhexyl)phthalate | 3 | 2 | NO | 0 | 0 | 0 | .59 | .59 | .59 |
| | Camphene | 3 | 2 | NO | 0 | 0 | 0 | .77 | .77 | .77 |
| | Chrysene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Di-n-butyl Phthalate | 3 | 2 | NO | 0 | 0 | 0 | .32 | .32 | .32 |
| | Di-n-octyl Phthalate | 3 | 2 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Dibenz(a,h)anthracene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Diphenyl Ether | 3 | 2 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Diphenylamine | 3 | 2 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Fluoranthene | 3 | 2 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| | Fluorene | 3 | 2 | NO | 0 | 0 | 0 | .71 | .71 | .71 |
| | Indeno(1,2,3-cd)pyrene | 3 | 2 | NO | 0 | 0 | 0 | .85 | .85 | .85 |
| | Indole | 3 | 2 | NO | 0 | 0 | 0 | .53 | .53 | .53 |
| | N-Nitrosodi-n-propylamine | 3 | 2 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | N-Nitrosodiphenylamine | 3 | 2 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Naphthalene | 3 | 2 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | Perylene | 3 | 2 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | Phenanthrene | 3 | 2 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| | Pyrene | 3 | 2 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| 20 | 2,3,4,5-Tetrachlorophenol | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,4,6-Tetrachlorophenol | 3 | 2 | NO | 0 | 0 | 0 | .39 | .39 | .39 |
| | 2,3,4-Trichlorophenol | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,5,6-Tetrachlorophenol | 3 | 2 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | 2,3,5-Trichlorophenol | 3 | 2 | NO | 0 | 0 | 0 | .85 | .85 | .85 |
| | 2,4,5-Trichlorophenol | 3 | 2 | NO | 0 | 0 | 0 | .77 | .77 | .77 |
| | 2,4,6-Trichlorophenol | 3 | 2 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | 2,4-Dichlorophenol | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,4-Dimethylphenol | 3 | 2 | NO | 0 | 0 | 0 | .59 | .59 | .59 |
| | 2,4-Dinitrophenol | 3 | 2 | NO | 0 | 0 | 0 | .43 | .43 | .43 |
| | 2,6-Dichlorophenol | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2-Chlorophenol | 3 | 2 | NO | 0 | 0 | 0 | .49 | .49 | .49 |
| | 4,6-Dinitro-o-cresol | 3 | 2 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 4-Chloro-3-methylphenol | 3 | 2 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | 4-Nitrophenol | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorophenol | 3 | 2 | NO | 0 | 0 | 0 | .38 | .38 | .38 |
| | Phenol | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | m-Cresol | 3 | 2 | NO | 0 | 0 | 0 | .68 | .68 | .68 |

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CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-1 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

ALGOMA STEEL
CONTROL POINT: 0300 STREAM: 30 INCH SEWER OUTFALL
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 20 | o-Cresol | 3 | 2 | NO | 0 | 0 | 0 | .62 | .62 | .62 |
| | p-Cresol | 3 | 2 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,3,5-Tetrachlorobenzene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,3-Trichlorobenzene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,4,5-Tetrachlorobenzene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,4-Trichlorobenzene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,4,5-Trichlorotoluene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachlorobenzene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachlorobutadiene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachlorocyclopentadiene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachloroethane | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Octachlorostyrene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorobenzene | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| 25 | Oil and Grease | 2 | 9 | IL | 11 | 0 | 0 | .20 | 1.40 | .87 |
| 26 | Abietic Acid | 3 | 2 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Chlorodehydroabietic Acid | 2 | 2 | FL | 50 | 0 | 0 | .20 | 1.00 | .60 |
| | Dehydroabietic Acid | 3 | 2 | NO | 0 | 0 | 0 | .20 | .80 | .50 |
| | Isopimaric Acid | 3 | 2 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Levopimaric Acid | 3 | 2 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Neoabietic Acid | 3 | 2 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Oleic Acid | 3 | 1 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Pimaric Acid | 3 | 2 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| IS1 | Iron | 1 | 35 | FH | 100 | 100 | 100 | 5.50 | 322.50 | 24.45 |

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GROUP 2 = PARAMETERS NOT SELECTED BUT DETECTED ABOVE RMDL
GROUP 3 = PARAMETERS NOT DETECTED ABOVE RMDL
TNS = NUMBER OF VALID SAMPLES
%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-2
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

ALGOMA STEEL
CONTROL POINT: 0700 STREAM: TERMINAL SETTLING BASINS
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 2 | Cyanide Total | 1 | 264 | FM | 89 | 82 | 46 | 1.00 | 54.00 | 5.80 |
| 3 | Hydrogen Ion (pH) | 1 | 263 | FH | 100 | 100 | 100 | .00 | .00 | .00 |
| 4a | Ammonia plus Ammonium | 1 | 262 | FH | 96 | 94 | 88 | .10 | 88.80 | 19.50 |
| | Total Kjeldahl Nitrogen | 2 | 2 | FL | 50 | 50 | 50 | .46 | 14.96 | 7.71 |
| 4b | Nitrate+Nitrite | 1 | 5 | FM | 100 | 60 | 40 | 1.52 | 5.76 | 3.39 |
| 5a | DOC | 1 | 106 | FH | 100 | 100 | 81 | 3.20 | 12.80 | 5.86 |
| 5b | TOC | 3 | 4 | NO | 0 | 0 | 0 | .52 | .78 | .64 |
| IS1 | Iron | 1 | 39 | FH | 100 | 95 | 92 | 1.50 | 80.25 | 18.05 |
| 6 | Total Phosphorus | 1 | 41 | FL | 68 | 27 | 7 | .20 | 449.00 | 14.51 |
| 7 | Specific Conductance | 1 | 261 | FH | 100 | 100 | 100 | 14.00 | 49.00 | 29.97 |
| 8 | Total Suspended Solids | 1 | 262 | FM | 56 | 54 | 16 | .20 | 12.88 | 2.70 |
| | Volatile Suspended Solids | 2 | 260 | IL | 12 | 1 | 0 | .10 | 2.42 | .47 |
| 9 | Aluminum | 1 | 11 | FM | 91 | 55 | 27 | .17 | 8.00 | 3.17 |
| | Beryllium | 3 | 11 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Cadmium | 3 | 11 | ND | 0 | 0 | 0 | .00 | 1.00 | .50 |
| | Chromium | 3 | 11 | NO | 0 | 0 | 0 | .25 | .75 | .65 |
| | Cobalt | 3 | 11 | NO | 0 | 0 | 0 | .20 | .75 | .65 |
| | Copper | 2 | 11 | IL | 18 | 0 | 0 | .40 | 1.50 | 1.00 |
| | Lead | 3 | 11 | ND | 0 | 0 | 0 | .10 | .70 | .23 |
| | Molybdenum | 3 | 11 | NO | 0 | 0 | 0 | .10 | 1.00 | .25 |
| | Nickel | 3 | 11 | NO | 0 | 0 | 0 | .20 | 1.00 | .90 |
| | Silver | 3 | 11 | ND | 0 | 0 | 0 | .13 | .50 | .43 |
| | Thallium | 3 | 11 | NO | 0 | 0 | 0 | .33 | 1.00 | .47 |
| | Vanadium | 3 | 11 | ND | 0 | 0 | 0 | .30 | 1.00 | .87 |
| | Zinc | 1 | 11 | FL | 64 | 18 | 0 | .50 | 2.70 | 1.20 |
| 10 | Antimony | 3 | 11 | NO | 0 | 0 | 0 | .00 | .40 | .20 |
| | Arsenic | 2 | 11 | IH | 27 | 9 | 9 | .00 | 5.40 | 1.00 |
| | Selenium | 1 | 11 | FL | 73 | 18 | 0 | .20 | 2.40 | 1.40 |
| 11 | Chromium (hexavalent) | 2 | 1 | FL | 100 | 0 | 0 | 1.30 | 1.30 | 1.30 |
| 12 | Mercury | 3 | 11 | NO | 0 | 0 | 0 | .10 | .50 | .28 |
| 14 | Phenolics (4AAP) | 1 | 262 | FH | 92 | 87 | 63 | .10 | 155.00 | 10.26 |
| 15 | Sulphide | 1 | 262 | FL | 43 | 24 | 4 | .15 | 151.50 | 2.40 |
| 16 | 1,1,2,2-Tetrachloroethane | 3 | 10 | ND | 0 | 0 | 0 | .23 | .23 | .23 |
| | 1,1,2-Trichloroethane | 3 | 10 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | 1,1-Dichloroethane | 3 | 10 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 1,1-Dichloroethylene | 3 | 10 | NO | 0 | 0 | 0 | .32 | .32 | .32 |
| | 1,2-Dichlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | .43 | .50 | .49 |
| | 1,2-Dichloroethane | 3 | 10 | ND | 0 | 0 | 0 | .63 | .63 | .63 |
| | 1,2-Dichloropropane | 3 | 10 | ND | 0 | 0 | 0 | .67 | .67 | .67 |
| | 1,3-Dichlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | .64 | .64 | .64 |
| | 1,4-Dichlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | .53 | .53 | .53 |
| | Bromoform | 3 | 10 | ND | 0 | 0 | 0 | .30 | .30 | .30 |
| | Bromomethane | 3 | 10 | NO | 0 | 0 | 0 | .70 | .70 | .70 |

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%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-2 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

ALGOMA STEEL
CONTROL POINT: 0700 STREAM: TERMINAL SETTLING BASINS
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 16 | Carbon Tetrachloride | 3 | 10 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | Chlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Chloroform | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Chloromethane | 3 | 10 | NO | 0 | 0 | 0 | .89 | .89 | .89 |
| | Cis-1,3-Dichloropropylene | 3 | 10 | NO | 0 | 0 | 0 | .79 | .79 | .79 |
| | Dibromochloromethane | 3 | 10 | NO | 0 | 0 | 0 | .91 | .91 | .91 |
| | Ethylene Dibromide | 3 | 10 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Methylene Chloride | 3 | 10 | NO | 0 | 0 | 0 | .77 | .77 | .77 |
| | Tetrachloroethylene | 3 | 10 | NO | 0 | 0 | 0 | .82 | .82 | .82 |
| | Trans-1,2-Dichloroethylene | 3 | 10 | NO | 0 | 0 | 0 | .79 | .79 | .79 |
| | Trans-1,3-Dichloropropylene | 3 | 10 | NO | 0 | 0 | 0 | .36 | .36 | .36 |
| | Trichloroethylene | 3 | 10 | NO | 0 | 0 | 0 | .47 | .47 | .47 |
| | Trichlorofluoromethane | 3 | 10 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Vinyl Chloride | 3 | 10 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| 17 | Benzene | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Ethylbenzene | 3 | 10 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | Styrene | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Toluene | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | m-Xylene and p-Xylene | 3 | 10 | NO | 0 | 0 | 0 | .91 | .91 | .91 |
| | o-Xylene | 3 | 10 | NO | 10 | 0 | 0 | 1.00 | 1.28 | 1.03 |
| 19 | 1-Chloronaphthalene | 3 | 10 | NO | 0 | 0 | 0 | .52 | .52 | .52 |
| | 1-Methylnaphthalene | 3 | 10 | NO | 0 | 0 | 0 | .66 | .66 | .66 |
| | 2,4-Dinitrotoluene | 3 | 10 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 3 | 10 | NO | 0 | 0 | 0 | .43 | .43 | .43 |
| | 2-Chloronaphthalene | 3 | 10 | NO | 0 | 0 | 0 | .61 | .61 | .61 |
| | 2-Methylnaphthalene | 3 | 10 | NO | 0 | 0 | 0 | .91 | .91 | .91 |
| | 4-Bromophenyl Phenyl Ether | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 3 | 10 | NO | 0 | 0 | 0 | .78 | .78 | .78 |
| | 5-Nitro, Acenaphthene | 3 | 10 | NO | 0 | 0 | 0 | .88 | .88 | .88 |
| | Acenaphthene | 3 | 10 | NO | 0 | 0 | 0 | .77 | .77 | .77 |
| | Acenaphthylene | 3 | 10 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Anthracene | 3 | 10 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Benzo(a)anthracene | 3 | 10 | NO | 10 | 0 | 0 | .60 | 1.00 | .64 |
| | Benzo(a)pyrene | 3 | 10 | NO | 10 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzo(b)fluoranthene | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzo(g,h,i)perylene | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzo(k)fluoranthene | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzobutylphthalate | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
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RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-2 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

ALGOMA STEEL
CONTROL POINT: 0700 STREAM: TERMINAL SETTLING BASINS
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Bis(2-chloroethoxyl)methane | 3 | 10 | NO | 0 | 0 | 0 | .89 | .89 | .89 |
| | Bis(2-chloroethyl)ether | 3 | 10 | NO | 0 | 0 | 0 | .41 | .41 | .41 |
| | Bis(2-chloroisopropyl)ether | 3 | 10 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Bis(2-ethylhexyl)phthalate | 1 | 10 | IL | 40 | 10 | 0 | .59 | 2.00 | 1.00 |
| | Camphene | 3 | 10 | NO | 0 | 0 | 0 | .77 | .77 | .77 |
| | Chrysene | 3 | 10 | NO | 10 | 0 | 0 | 1.00 | 1.67 | 1.07 |
| | Di-n-butyl Phthalate | 3 | 10 | NO | 0 | 0 | 0 | .32 | .34 | .32 |
| | Di-n-octyl Phthalate | 3 | 10 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Dibenz(a,h)anthracene | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Diphenyl Ether | 3 | 8 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Diphenylamine | 3 | 10 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Fluoranthene | 3 | 10 | NO | 10 | 10 | 0 | .75 | 3.25 | 1.00 |
| | Fluorene | 3 | 10 | NO | 0 | 0 | 0 | .71 | .71 | .71 |
| | Indeno(1,2,3-cd)pyrene | 3 | 10 | NO | 0 | 0 | 0 | .85 | .85 | .85 |
| | Indole | 3 | 10 | NO | 0 | 0 | 0 | .53 | .53 | .53 |
| | N-Nitrosodi-n-propylamine | 3 | 10 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | N-Nitrosodiphenylamine | 3 | 10 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Naphthalene | 3 | 10 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | Perylene | 3 | 10 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | Phenanthrene | 3 | 10 | NO | 10 | 0 | 0 | .75 | 1.50 | .83 |
| | Pyrene | 2 | 10 | IL | 20 | 10 | 0 | .75 | 3.00 | 1.07 |
| 20 | 2,3,4,5-Tetrachlorophenol | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,4,6-Tetrachlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .39 | .39 | .39 |
| | 2,3,4-Trichlorophenol | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,5,6-Tetrachlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | 2,3,5-Trichlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .85 | .85 | .85 |
| | 2,4,5-Trichlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .77 | .77 | .77 |
| | 2,4,6-Trichlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | 2,4-Dichlorophenol | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,4-Dimethylphenol | 3 | 10 | NO | 0 | 0 | 0 | .59 | .59 | .59 |
| | 2,4-Dinitrophenol | 3 | 10 | NO | 0 | 0 | 0 | .43 | .43 | .43 |
| | 2,6-Dichlorophenol | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2-Chlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .49 | .49 | .49 |
| | 4,6-Dinitro-o-cresol | 3 | 10 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 4-Chloro-3-methylphenol | 3 | 10 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | 4-Nitrophenol | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .38 | .38 | .38 |
| | Phenol | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |

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CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-2 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

ALGOMA STEEL
CONTROL POINT: 0700 STREAM: TERMINAL SETTLING BASINS
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 20 | m-Cresol | 3 | 10 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | o-Cresol | 3 | 10 | NO | 0 | 0 | 0 | .62 | .62 | .62 |
| | p-Cresol | 3 | 10 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 3 | 10 | NO | 10 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,3,5-Tetrachlorobenzene | 2 | 10 | IL | 20 | 0 | 0 | 1.00 | 1.80 | 1.10 |
| | 1,2,3-Trichlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,4,5-Tetrachlorobenzene | 3 | 10 | NO | 10 | 0 | 0 | 1.00 | 1.80 | 1.10 |
| | 1,2,4-Trichlorobenzene | 3 | 10 | NO | 10 | 10 | 10 | 1.00 | 6.60 | 1.60 |
| | 2,4,5-Trichlorotoluene | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachlorobenzene | 1 | 10 | IM | 40 | 30 | 0 | 1.00 | 2.30 | 1.40 |
| | Hexachlorobutadiene | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachlorocyclopentadiene | 2 | 10 | IL | 20 | 10 | 0 | 1.00 | 2.00 | 1.20 |
| | Hexachloroethane | 3 | 10 | NO | 10 | 0 | 0 | 1.00 | 1.10 | 1.00 |
| | Octachlorostyrene | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorobenzene | 3 | 10 | NO | 10 | 0 | 0 | 1.00 | 1.30 | 1.00 |
| 24 | 2,3,7,8 TCDD | 3 | 1 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Octachlorodibenzo-p-dioxin | 3 | 1 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Octachlorodibenzofuran | 3 | 1 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Total H6CDD | 3 | 1 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | Total H6CDF | 3 | 1 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | Total H7CDD | 3 | 1 | NO | 0 | 0 | 0 | .97 | .97 | .97 |
| | Total H7CDF | 3 | 1 | NO | 0 | 0 | 0 | .93 | .93 | .93 |
| | Total PCDD | 3 | 1 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Total PCDF | 3 | 1 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Total TCDD | 3 | 1 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Total TCDF | 3 | 1 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| 25 | Oil and Grease | 1 | 264 | FM | 66 | 52 | 28 | .20 | 215.20 | 5.25 |
| 26 | Abietic Acid | 3 | 5 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Chlorodehydroabietic Acid | 3 | 5 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Dehydroabietic Acid | 2 | 5 | IL | 20 | 0 | 0 | .20 | 1.60 | .59 |
| | Isopimaric Acid | 2 | 5 | IL | 20 | 0 | 0 | .20 | 1.00 | .36 |
| | Levopimaric Acid | 3 | 5 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Neoabietic Acid | 3 | 5 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Oleic Acid | 2 | 5 | IL | 20 | 0 | 0 | .20 | 1.20 | .54 |
| | Pimaric Acid | 3 | 5 | NO | 0 | 0 | 0 | .20 | .60 | .28 |
| 27 | PCBT | 3 | 1 | NO | 0 | 0 | 0 | .50 | .50 | .50 |

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RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-3
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

ALGOMA STEEL
CONTROL POINT: 1400 STREAM: BY-PRODUCTS AREA
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 2 | Cyanide Total | 1 | 120 | FH | 100 | 100 | 100 | 82.00 | 5780.00 | 1240.00 |
| 4a | Ammonia plus Ammonium | 1 | 120 | FH | 100 | 100 | 100 | 31.84 | 7968.00 | 3911.04 |
| 8 | Total Suspended Solids | 1 | 115 | FM | 97 | 62 | 17 | .80 | 147.12 | 6.27 |
| | Volatile Suspended Solids | 1 | 112 | IL | 34 | 13 | 4 | .10 | 31.94 | 1.67 |
| 14 | Phenolics (4AAP) | 1 | 120 | FH | 100 | 100 | 100 | 735.00 | 61500.00 | 6426.00 |
| 17 | Benzene | 1 | 118 | FH | 94 | 94 | 92 | 1.00 | 25200.00 | 3333.01 |
| | Ethylbenzene | 2 | 6 | IH | 17 | 17 | 17 | .83 | 5.12 | 1.55 |
| | Styrene | 2 | 6 | IH | 33 | 17 | 17 | 1.00 | 13.80 | 3.17 |
| | Toluene | 1 | 6 | FH | 100 | 100 | 83 | 4.20 | 11180.00 | 1880.65 |
| | m-Xylene and p-Xylene | 1 | 6 | FL | 50 | 50 | 33 | .91 | 140.91 | 26.06 |
| | o-Xylene | 1 | 6 | FL | 50 | 33 | 33 | 1.00 | 170.00 | 29.98 |
| 19 | 1-Chloronaphthalene | 3 | 7 | NO | 0 | 0 | 0 | .52 | .52 | .52 |
| | 1-Methylnaphthalene | 2 | 7 | IH | 14 | 14 | 14 | .37 | 234.06 | 33.96 |
| | 2,4-Dinitrotoluene | 3 | 7 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 3 | 7 | NO | 0 | 0 | 0 | .43 | .43 | .43 |
| | 2-Chloronaphthalene | 3 | 7 | NO | 0 | 0 | 0 | .61 | .61 | .61 |
| | 2-Methylnaphthalene | 2 | 7 | IH | 14 | 14 | 14 | .91 | 781.82 | 112.47 |
| | 4-Bromophenyl Phenyl Ether | 3 | 7 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 3 | 7 | NO | 0 | 0 | 0 | .78 | .78 | .78 |
| | 5-Nitro, Acenaphthene | 3 | 7 | NO | 0 | 0 | 0 | .88 | .88 | .88 |
| | Acenaphthene | 2 | 7 | IH | 14 | 14 | 14 | .77 | 105.38 | 15.71 |
| | Acenaphthylene | 1 | 7 | FL | 57 | 43 | 29 | .50 | 1542.86 | 222.58 |
| | Anthracene | 1 | 7 | FL | 43 | 29 | 29 | .67 | 641.67 | 93.07 |
| | Benzo(a)anthracene | 1 | 7 | FH | 86 | 86 | 57 | .60 | 1440.00 | 215.89 |
| | Benzo(a)pyrene | 1 | 114 | FM | 89 | 75 | 39 | .12 | 66.00 | 7.98 |
| | Benzo(b)fluoranthene | 1 | 7 | FH | 86 | 86 | 57 | 1.00 | 1085.71 | 169.96 |
| | Benzo(g,h,i)perylene | 1 | 7 | FH | 71 | 57 | 57 | 1.00 | 680.00 | 108.96 |
| | Benzo(k)fluoranthene | 1 | 7 | FH | 86 | 71 | 57 | 1.00 | 581.43 | 95.04 |
| | Benzobutylphthalate | 3 | 7 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Bis(2-chloroethoxyl)methane | 3 | 7 | NO | 0 | 0 | 0 | .89 | .89 | .89 |
| | Bis(2-chloroethyl)ether | 3 | 7 | NO | 0 | 0 | 0 | .41 | .41 | .41 |
| | Bis(2-chloroisopropyl)ether | 3 | 7 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Bis(2-ethylhexyl)phthalate | 2 | 7 | IM | 29 | 29 | 14 | .59 | 25.00 | 4.38 |
| | Camphene | 3 | 7 | NO | 0 | 0 | 0 | .77 | .77 | .77 |
| | Chrysene | 1 | 7 | FH | 86 | 86 | 71 | 1.00 | 2570.00 | 386.29 |
| | Di-n-butyl Phthalate | 3 | 7 | NO | 0 | 0 | 0 | .32 | .61 | .39 |
| | Di-n-octyl Phthalate | 3 | 7 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Dibenz(a,h)anthracene | 2 | 7 | IM | 29 | 29 | 14 | 1.00 | 81.54 | 13.01 |
| | Diphenylamine | 3 | 7 | NO | 0 | 0 | 0 | .57 | .57 | .57 |

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%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-3 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

ALGOMA STEEL
CONTROL POINT: 1400 STREAM: BY-PRODUCTS AREA
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Fluoranthene | 1 | 7 | FH | 86 | 86 | 71 | .75 | 6975.00 | 1011.57 |
| | Fluorene | 1 | 7 | FL | 43 | 29 | 14 | .71 | 536.47 | 77.59 |
| | Indeno(1,2,3-cd)pyrene | 1 | 7 | FH | 71 | 57 | 57 | .85 | 399.23 | 63.79 |
| | Indole | 2 | 7 | IH | 29 | 29 | 29 | .53 | 1252.63 | 325.94 |
| | N-Nitrosodi-n-propylamine | 3 | 7 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | N-Nitrosodiphenylamine | 3 | 7 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Naphthalene | 1 | 114 | FH | 88 | 81 | 58 | .69 | 165.00 | 10.57 |
| | Perylene | 1 | 7 | FH | 71 | 57 | 57 | .73 | 162.00 | 27.17 |
| | Phenanthrene | 1 | 7 | FL | 43 | 43 | 43 | .75 | 6975.00 | 1008.75 |
| | Pyrene | 1 | 7 | FH | 86 | 86 | 71 | .75 | 5175.00 | 751.43 |
| 25 | Oil and Grease | 1 | 117 | FL | 79 | 44 | 15 | .10 | 234.40 | 7.62 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
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TNS = NUMBER OF VALID SAMPLES
%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-4
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

DOFASCO INC.
CONTROL POINT: 0300 STREAM: BOILER HOUSE SEWER #1
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 2 | Cyanide Total | 1 | 52 | FM | 98 | 79 | 21 | .40 | 46.00 | 4.20 |
| 3 | Hydrogen Ion (pH) | 1 | 52 | FM | 100 | 100 | 100 | .00 | .00 | .00 |
| 4a | Ammonia plus Ammonium | 1 | 52 | FM | 96 | 71 | 17 | .64 | 8.80 | 3.43 |
| | Total Kjeldahl Nitrogen | 1 | 4 | FL | 100 | 50 | 0 | 1.00 | 3.80 | 2.15 |
| 4b | Nitrate+Nitrite | 1 | 4 | FM | 100 | 100 | 75 | 2.76 | 9.60 | 7.39 |
| 5a | DOC | 1 | 9 | FM | 100 | 100 | 100 | 5.80 | 16.60 | 10.02 |
| 5b | TOC | 2 | 4 | IL | 25 | 0 | 0 | .72 | 1.46 | .99 |
| 6 | Total Phosphorus | 3 | 52 | NO | 4 | 0 | 0 | .30 | 1.60 | .57 |
| 7 | Specific Conductance | 1 | 4 | FM | 100 | 100 | 100 | 124.40 | 150.40 | 135.35 |
| 8 | Total Suspended Solids | 1 | 52 | FL | 88 | 27 | 0 | .50 | 3.20 | 1.62 |
| | Volatile Suspended Solids | 3 | 52 | NO | 0 | 0 | 0 | .10 | .90 | .45 |
| 9 | Aluminum | 1 | 4 | FM | 100 | 100 | 50 | 2.67 | 9.33 | 6.33 |
| | Beryllium | 3 | 4 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Cadmium | 3 | 4 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Chromium | 1 | 52 | IL | 17 | 2 | 0 | .20 | 4.00 | .65 |
| | Cobalt | 3 | 4 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Copper | 1 | 4 | FL | 75 | 50 | 0 | 1.00 | 3.00 | 1.80 |
| | Lead | 3 | 12 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Molybdenum | 2 | 4 | FL | 50 | 0 | 0 | 1.00 | 1.50 | 1.15 |
| | Nickel | 3 | 4 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Silver | 3 | 4 | NO | 0 | 0 | 0 | .33 | .33 | .33 |
| | Thallium | 3 | 4 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Vanadium | 3 | 4 | NO | 0 | 0 | 0 | .33 | .33 | .33 |
| | Zinc | 1 | 52 | FM | 77 | 77 | 42 | .50 | 23.00 | 4.70 |
| 10 | Antimony | 3 | 4 | NO | 0 | 0 | 0 | .60 | .80 | .60 |
| | Arsenic | 3 | 4 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | Selenium | 3 | 4 | NO | 0 | 0 | 0 | .60 | .80 | .60 |
| 11 | Chromium (hexavalent) | 3 | 4 | NO | 0 | 0 | 0 | .40 | 1.00 | .90 |
| 12 | Mercury | 3 | 4 | NO | 0 | 0 | 0 | .19 | .60 | .29 |
| 14 | Phenolics (4AAP) | 1 | 51 | FM | 88 | 84 | 67 | .50 | 105.00 | 12.46 |
| 15 | Sulphide | 2 | 4 | FL | 50 | 25 | 0 | .50 | 4.50 | 1.75 |
| 16 | 1,1,2,2-Tetrachloroethane | 3 | 4 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 1,1,2-Trichloroethane | 3 | 4 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,1-Dichloroethane | 3 | 4 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 1,1-Dichloroethylene | 3 | 4 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | 1,2-Dichlorobenzene | 3 | 4 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | 1,2-Dichloroethane | 3 | 4 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 1,2-Dichloropropane | 3 | 4 | NO | 0 | 0 | 0 | .56 | .56 | .56 |
| | 1,3-Dichlorobenzene | 3 | 4 | NO | 0 | 0 | 0 | .27 | .27 | .27 |
| | 1,4-Dichlorobenzene | 3 | 4 | NO | 0 | 0 | 0 | .12 | .12 | .12 |
| | Bromoform | 3 | 4 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Bromomethane | 3 | 4 | NO | 0 | 0 | 0 | .65 | .65 | .65 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
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%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-4 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

DOFASCO INC.
CONTROL POINT: 0300 STREAM: BOILER HOUSE SEWER #1
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 16 | Carbon Tetrachloride | 3 | 4 | NO | 0 | 0 | 0 | .23 | .23 | .23 |
| | Chlorobenzene | 3 | 4 | NO | 0 | 0 | 0 | .86 | .86 | .86 |
| | Chloroform | 3 | 4 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Chloromethane | 3 | 4 | NO | 0 | 0 | 0 | .62 | .62 | .62 |
| | Cis-1,3-Dichloropropylene | 3 | 4 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Dibromochloromethane | 3 | 4 | NO | 0 | 0 | 0 | .36 | .36 | .36 |
| | Ethylene Dibromide | 3 | 4 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | Methylene Chloride | 3 | 4 | NO | 0 | 0 | 0 | .23 | .23 | .23 |
| | Tetrachloroethylene | 3 | 4 | NO | 0 | 0 | 0 | .18 | .18 | .18 |
| | Trans-1,2-Dichloroethylene | 3 | 4 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Trans-1,3-Dichloropropylene | 3 | 4 | NO | 0 | 0 | 0 | .79 | .79 | .79 |
| | Trichloroethylene | 3 | 4 | NO | 0 | 0 | 0 | .16 | .16 | .16 |
| | Trichlorofluoromethane | 3 | 4 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Vinyl Chloride | 3 | 4 | NO | 0 | 0 | 0 | .72 | .72 | .72 |
| 17 | Benzene | 3 | 4 | NO | 0 | 0 | 0 | .40 | .40 | .40 |
| | Ethylbenzene | 3 | 4 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Styrene | 3 | 4 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | Toluene | 3 | 4 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | m-Xylene and p-Xylene | 3 | 4 | NO | 0 | 0 | 0 | .45 | .45 | .45 |
| | o-Xylene | 3 | 4 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| 19 | 1-Chloronaphthalene | 3 | 4 | NO | 0 | 0 | 0 | .32 | .32 | .32 |
| | 1-Methylnaphthalene | 3 | 4 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | 2,4-Dinitrotoluene | 3 | 4 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 3 | 4 | NO | 0 | 0 | 0 | .86 | .86 | .86 |
| | 2-Chloronaphthalene | 3 | 4 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 2-Methylnaphthalene | 3 | 4 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | 4-Bromophenyl Phenyl Ether | 3 | 4 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 3 | 4 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 5-Nitro, Acenaphthene | 3 | 4 | NO | 0 | 0 | 0 | .42 | .42 | .42 |
| | Acenaphthene | 3 | 4 | NO | 0 | 0 | 0 | .54 | .54 | .54 |
| | Acenaphthylene | 3 | 4 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Anthracene | 3 | 4 | NO | 0 | 0 | 0 | .17 | .17 | .17 |
| | Benzo(a)anthracene | 3 | 4 | NO | 0 | 0 | 0 | .40 | .40 | .40 |
| | Benzo(a)pyrene | 3 | 4 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | Benzo(b)fluoranthene | 3 | 4 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Benzo(g,h,i)perylene | 3 | 4 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Benzo(k)fluoranthene | 3 | 4 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Benzobutylphthalate | 3 | 4 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |

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CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-4 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

DOFASCO INC.
CONTROL POINT: 0300 STREAM: BOILER HOUSE SEWER #1
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Bis(2-chloroethoxyl)methane | 3 | 4 | NO | 0 | 0 | 0 | .37 | .37 | .37 |
| | Bis(2-chloroethyl)ether | 3 | 4 | NO | 0 | 0 | 0 | .41 | .41 | .41 |
| | Bis(2-chloroisopropyl)ether | 3 | 4 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | Bis(2-ethylhexyl)phthalate | 3 | 4 | NO | 0 | 0 | 0 | .64 | .73 | .66 |
| | Camphene | 3 | 4 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Chrysene | 3 | 4 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Di-n-butyl Phthalate | 3 | 4 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Di-n-octyl Phthalate | 2 | 4 | IL | 25 | 0 | 0 | .40 | 1.45 | .66 |
| | Dibenz(a,h)anthracene | 3 | 4 | NO | 0 | 0 | 0 | .31 | .31 | .31 |
| | Diphenylamine | 3 | 4 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | Fluoranthene | 3 | 4 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Fluorene | 3 | 4 | NO | 0 | 0 | 0 | .18 | .18 | .18 |
| | Indeno(1,2,3-cd)pyrene | 3 | 4 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | Indole | 3 | 4 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | N-Nitrosodi-n-propylamine | 3 | 4 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | N-Nitrosodiphenylamine | 3 | 4 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | Naphthalene | 3 | 4 | NO | 0 | 0 | 0 | .19 | .19 | .19 |
| | Perylene | 3 | 4 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Phenanthrene | 3 | 4 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| | Pyrene | 3 | 4 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| 20 | 2,3,4,5-Tetrachlorophenol | 3 | 4 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,4,6-Tetrachlorophenol | 3 | 4 | NO | 0 | 0 | 0 | .25 | .25 | .25 |
| | 2,3,4-Trichlorophenol | 3 | 4 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | 2,3,5,6-Tetrachlorophenol | 3 | 4 | NO | 0 | 0 | 0 | .44 | .44 | .44 |
| | 2,3,5-Trichlorophenol | 3 | 4 | NO | 0 | 0 | 0 | .31 | .31 | .31 |
| | 2,4,5-Trichlorophenol | 3 | 4 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | 2,4,6-Trichlorophenol | 3 | 4 | NO | 0 | 0 | 0 | .92 | .92 | .92 |
| | 2,4-Dichlorophenol | 3 | 4 | NO | 0 | 0 | 0 | .71 | .71 | .71 |
| | 2,4-Dimethylphenol | 3 | 4 | NO | 0 | 0 | 0 | .23 | .23 | .23 |
| | 2,4-Dinitrophenol | 3 | 4 | NO | 0 | 0 | 0 | .11 | .11 | .11 |
| | 2,6-Dichlorophenol | 3 | 4 | NO | 0 | 0 | 0 | .55 | .55 | .55 |
| | 2-Chlorophenol | 3 | 4 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | 4,6-Dinitro-o-cresol | 3 | 4 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 4-Chloro-3-methylphenol | 3 | 4 | NO | 0 | 0 | 0 | .93 | .93 | .93 |
| | 4-Nitrophenol | 3 | 4 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorophenol | 3 | 4 | NO | 0 | 0 | 0 | .85 | .85 | .85 |
| | Phenol | 3 | 4 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | m-Cresol | 3 | 4 | NO | 0 | 0 | 0 | .88 | .88 | .88 |

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RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-4 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

DOFASCO INC.
CONTROL POINT: 0300 STREAM: BOILER HOUSE SEWER #1
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 20 | o-Cresol | 3 | 4 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | p-Cresol | 3 | 4 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 3 | 4 | NO | 0 | 0 | 0 | .90 | .90 | .90 |
| | 1,2,3,5-Tetrachlorobenzene | 3 | 4 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 1,2,3-Trichlorobenzene | 3 | 4 | NO | 0 | 0 | 0 | .90 | .90 | .90 |
| | 1,2,4,5-Tetrachlorobenzene | 3 | 4 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 1,2,4-Trichlorobenzene | 3 | 4 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | 2,4,5-Trichlorotoluene | 3 | 4 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Hexachlorobenzene | 3 | 4 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Hexachlorobutadiene | 3 | 4 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Hexachlorocyclopentadiene | 3 | 4 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Hexachloroethane | 3 | 4 | NO | 0 | 0 | 0 | .20 | .50 | .30 |
| | Octachlorostyrene | 3 | 4 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Pentachlorobenzene | 3 | 4 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| 25 | Oil and Grease | 1 | 52 | IL | 35 | 10 | 4 | .40 | 6.20 | 1.26 |
| 26 | Abietic Acid | 3 | 4 | NO | 0 | 0 | 0 | .74 | .74 | .74 |
| | Chlorodehydroabietic Acid | 3 | 4 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | Dehydroabietic Acid | 3 | 4 | NO | 0 | 0 | 0 | .90 | .90 | .90 |
| | Isopimaric Acid | 3 | 4 | NO | 0 | 0 | 0 | .66 | .66 | .66 |
| | Levopimaric Acid | 3 | 4 | NO | 0 | 0 | 0 | .82 | .82 | .82 |
| | Neoabietic Acid | 3 | 4 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | Oleic Acid | 3 | 4 | NO | 0 | 0 | 0 | .88 | .88 | .88 |
| | Pimaric Acid | 3 | 4 | NO | 0 | 0 | 0 | .54 | .54 | .54 |
| IS1 | Iron | 1 | 52 | FH | 100 | 98 | 96 | 1.00 | 125.00 | 22.20 |

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CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-5
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

DOFASCO INC.
CONTROL POINT: 0400 STREAM: WEST BAY FRONT SEWER
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 2 | Cyanide Total | 1 | 50 | FH | 100 | 100 | 98 | 4.00 | 248.00 | 53.00 |
| 3 | Hydrogen Ion (pH) | 1 | 351 | FH | 100 | 100 | 100 | .00 | .00 | .00 |
| 4a | Ammonia plus Ammonium | 1 | 50 | FH | 100 | 98 | 82 | 1.40 | 11.20 | 6.90 |
| | Total Kjeldahl Nitrogen | 1 | 4 | FM | 100 | 75 | 25 | 1.60 | 5.60 | 4.15 |
| 4b | Nitrate+Nitrite | 1 | 4 | FH | 100 | 100 | 100 | 5.60 | 11.20 | 8.40 |
| 5a | DOC | 1 | 109 | FH | 100 | 98 | 95 | 1.00 | 20.00 | 9.92 |
| 5b | TOC | 2 | 4 | FL | 50 | 0 | 0 | .82 | 1.22 | .98 |
| 6 | Total Phosphorus | 1 | 50 | IL | 24 | 8 | 0 | .20 | 4.40 | .82 |
| 7 | Specific Conductance | 1 | 351 | FH | 100 | 100 | 100 | 102.00 | 184.20 | 141.15 |
| 8 | Total Suspended Solids | 1 | 351 | FM | 99 | 98 | 32 | .60 | 52.00 | 5.91 |
| | Volatile Suspended Solids | 2 | 351 | IL | 11 | 1 | 0 | .10 | 2.50 | .68 |
| 9 | Aluminum | 1 | 12 | FH | 100 | 100 | 83 | 3.33 | 24.33 | 10.43 |
| | Beryllium | 3 | 12 | NO | 0 | 0 | 0 | .10 | .20 | .20 |
| | Cadmium | 2 | 12 | IL | 25 | 8 | 0 | .50 | 3.00 | 1.00 |
| | Chromium | 1 | 51 | IH | 29 | 2 | 2 | .10 | 12.00 | .85 |
| | Cobalt | 3 | 12 | NO | 0 | 0 | 0 | .25 | .50 | .50 |
| | Copper | 1 | 12 | FL | 75 | 33 | 8 | .60 | 20.00 | 3.00 |
| | Lead | 2 | 12 | IL | 17 | 8 | 0 | .67 | 2.00 | 1.07 |
| | Molybdenum | 1 | 12 | FL | 67 | 17 | 0 | .50 | 2.00 | 1.20 |
| | Nickel | 2 | 12 | IL | 17 | 8 | 0 | .25 | 4.00 | .80 |
| | Silver | 3 | 12 | NO | 0 | 0 | 0 | .17 | .33 | .33 |
| | Thallium | 1 | 12 | FL | 42 | 0 | 0 | .50 | 1.67 | .93 |
| | Vanadium | 3 | 12 | NO | 0 | 0 | 0 | .10 | .67 | .33 |
| | Zinc | 1 | 51 | FH | 90 | 90 | 57 | .10 | 74.00 | 15.00 |
| 10 | Antimony | 3 | 10 | NO | 10 | 0 | 0 | .60 | 1.00 | .60 |
| | Arsenic | 3 | 10 | NO | 0 | 0 | 0 | .60 | .80 | .60 |
| | Selenium | 1 | 10 | FL | 90 | 0 | 0 | .60 | 1.40 | 1.20 |
| 11 | Chromium (hexavalent) | 3 | 4 | NO | 0 | 0 | 0 | .40 | 1.00 | .90 |
| 12 | Mercury | 2 | 10 | IH | 20 | 10 | 10 | .19 | 7.00 | 1.09 |
| 14 | Phenolics (4AAP) | 1 | 49 | FH | 100 | 92 | 90 | 1.00 | 100.00 | 25.16 |
| 15 | Sulphide | 1 | 4 | FL | 100 | 50 | 25 | 1.50 | 8.50 | 3.55 |
| 16 | 1,1,2,2-Tetrachloroethane | 3 | 10 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 1,1,2-Trichloroethane | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,1-Dichloroethane | 3 | 10 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 1,1-Dichloroethylene | 3 | 10 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | 1,2-Dichlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | 1,2-Dichloroethane | 3 | 10 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 1,2-Dichloropropane | 3 | 10 | NO | 0 | 0 | 0 | .56 | .56 | .56 |
| | 1,3-Dichlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | .27 | .27 | .27 |
| | 1,4-Dichlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | .12 | .12 | .12 |
| | Bromoform | 3 | 10 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Bromomethane | 3 | 10 | NO | 0 | 0 | 0 | .65 | .65 | .65 |
| | Carbon Tetrachloride | 3 | 10 | NO | 0 | 0 | 0 | .23 | .23 | .23 |

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RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-5 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

DOFASCO INC.
CONTROL POINT: 0400 STREAM: WEST BAY FRONT SEWER
FOR THE PERIOD FROM B91101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 16 | Chlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | .86 | .86 | .86 |
| | Chloroform | 3 | 10 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Chloromethane | 3 | 10 | NO | 0 | 0 | 0 | .62 | .62 | .62 |
| | Cis-1,3-Dichloropropylene | 3 | 10 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Dibromochloromethane | 3 | 10 | NO | 0 | 0 | 0 | .36 | .36 | .36 |
| | Ethylene Dibromide | 3 | 10 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | Methylene Chloride | 3 | 10 | NO | 0 | 0 | 0 | .23 | .23 | .23 |
| | Tetrachloroethylene | 3 | 10 | NO | 0 | 0 | 0 | .18 | .18 | .18 |
| | Trans-1,2-Dichloroethylene | 3 | 10 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Trans-1,3-Dichloropropylene | 3 | 10 | NO | 0 | 0 | 0 | .79 | .79 | .79 |
| | Trichloroethylene | 3 | 10 | NO | 0 | 0 | 0 | .16 | .16 | .16 |
| | Trichlorofluoromethane | 3 | 10 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Vinyl Chloride | 3 | 10 | NO | 0 | 0 | 0 | .72 | .72 | .72 |
| 17 | Benzene | 3 | 10 | NO | 0 | 0 | 0 | .40 | .40 | .40 |
| | Ethylbenzene | 3 | 10 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Styrene | 3 | 10 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | Toluene | 3 | 10 | NO | 10 | 10 | 0 | .80 | 3.20 | 1.04 |
| | m-Xylene and p-Xylene | 3 | 10 | NO | 0 | 0 | 0 | .45 | .45 | .45 |
| | o-Xylene | 3 | 10 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| 19 | 1-Chloronaphthalene | 3 | 10 | NO | 0 | 0 | 0 | .32 | .32 | .32 |
| | 1-Methylnaphthalene | 3 | 10 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | 2,4-Dinitrotoluene | 3 | 10 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 3 | 10 | NO | 0 | 0 | 0 | .86 | .86 | .86 |
| | 2-Chloronaphthalene | 3 | 10 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 2-Methylnaphthalene | 3 | 10 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | 4-Bromophenyl Phenyl Ether | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 5-Nitro, Acenaphthene | 3 | 10 | NO | 0 | 0 | 0 | .42 | .42 | .42 |
| | Acenaphthene | 3 | 10 | NO | 0 | 0 | 0 | .54 | .54 | .54 |
| | Acenaphthylene | 3 | 10 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Anthracene | 3 | 10 | NO | 0 | 0 | 0 | .17 | .17 | .17 |
| | Benzo(a)anthracene | 2 | 10 | IL | 30 | 0 | 0 | .40 | 1.60 | .66 |
| | Benzo(a)pyrene | 3 | 10 | NO | 10 | 0 | 0 | .83 | 1.00 | .85 |
| | Benzo(b)fluoranthene | 3 | 10 | NO | 10 | 0 | 0 | .57 | 1.14 | .66 |
| | Benzo(g,h,i)perylene | 3 | 10 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Benzo(k)fluoranthene | 2 | 10 | IL | 20 | 0 | 0 | .57 | 1.71 | .74 |
| | Benzobutylphthalate | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Bis(2-chloroethoxyl)methane | 3 | 10 | NO | 0 | 0 | 0 | .37 | .37 | .37 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
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TNS = NUMBER OF VALID SAMPLES
%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-5 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

DOFASCO INC.
CONTROL POINT: 0400 STREAM: WEST BAY FRONT SEWER
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Bis(2-chloroethyl)ether | 3 | 10 | NO | 0 | 0 | 0 | .41 | .41 | .41 |
| | Bis(2-chloroisopropyl)ether | 3 | 10 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | Bis(2-ethylhexyl)phthalate | 3 | 10 | NO | 10 | 0 | 0 | .64 | 1.41 | .71 |
| | Camphene | 3 | 10 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Chrysene | 1 | 10 | FL | 60 | 20 | 0 | 1.00 | 2.33 | 1.40 |
| | Di-n-butyl Phthalate | 3 | 10 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Di-n-octyl Phthalate | 3 | 10 | NO | 0 | 0 | 0 | .40 | .75 | .47 |
| | Dibenz(a,h)anthracene | 3 | 10 | NO | 0 | 0 | 0 | .31 | .31 | .31 |
| | Diphenylamine | 3 | 10 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | Fluoranthene | 1 | 10 | FL | 60 | 20 | 0 | .50 | 3.00 | 1.27 |
| | Fluorene | 3 | 10 | NO | 0 | 0 | 0 | .18 | .18 | .18 |
| | Indeno(1,2,3-cd)pyrene | 3 | 10 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | Indole | 3 | 10 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | N-Nitrosodi-n-propylamine | 3 | 10 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | N-Nitrosodiphenylamine | 3 | 10 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | Naphthalene | 3 | 10 | NO | 0 | 0 | 0 | .19 | .19 | .19 |
| | Perylene | 3 | 10 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Phenanthrene | 3 | 10 | NO | 10 | 0 | 0 | .75 | 1.00 | .77 |
| | Pyrene | 1 | 10 | FL | 80 | 20 | 0 | .75 | 2.50 | 1.30 |
| 20 | 2,3,4,5-Tetrachlorophenol | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,4,6-Tetrachlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .25 | .25 | .25 |
| | 2,3,4-Trichlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | 2,3,5,6-Tetrachlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .44 | .44 | .44 |
| | 2,3,5-Trichlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .31 | .31 | .31 |
| | 2,4,5-Trichlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | 2,4,6-Trichlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .92 | .92 | .92 |
| | 2,4-Dichlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .71 | .71 | .71 |
| | 2,4-Dimethylphenol | 3 | 10 | NO | 0 | 0 | 0 | .23 | .23 | .23 |
| | 2,4-Dinitrophenol | 3 | 10 | NO | 0 | 0 | 0 | .11 | .11 | .11 |
| | 2,6-Dichlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .55 | .55 | .55 |
| | 2-Chlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | 4,6-Dinitro-o-cresol | 3 | 10 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 4-Chloro-3-methylphenol | 3 | 10 | NO | 0 | 0 | 0 | .93 | .93 | .93 |
| | 4-Nitrophenol | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorophenol | 3 | 10 | NO | 0 | 0 | 0 | .85 | .85 | .85 |
| | Phenol | 3 | 10 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | m-Cresol | 3 | 10 | NO | 0 | 0 | 0 | .88 | .88 | .88 |
| | o-Cresol | 3 | 10 | NO | 0 | 0 | 0 | .46 | .46 | .46 |

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%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-5 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

DOFASCO INC.
CONTROL POINT: 0400 STREAM: WEST BAY FRONT SEWER
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 20 | p-Cresol | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | .90 | .90 | .90 |
| | 1,2,3,5-Tetrachlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 1,2,3-Trichlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | .90 | .90 | .90 |
| | 1,2,4,5-Tetrachlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 1,2,4-Trichlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | 2,4,5-Trichlorotoluene | 3 | 10 | NO | 0 | 0 | 0 | .30 | .50 | .30 |
| | Hexachlorobenzene | 3 | 10 | NO | 10 | 0 | 0 | .30 | 1.00 | .40 |
| | Hexachlorobutadiene | 3 | 10 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Hexachlorocyclopentadiene | 3 | 10 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Hexachloroethane | 3 | 10 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Octachlorostyrene | 3 | 10 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Pentachlorobenzene | 3 | 10 | NO | 10 | 0 | 0 | .20 | 1.00 | .30 |
| 24 | 2,3,7,8 TCDD | 3 | 2 | NO | 0 | 0 | 0 | .55 | .55 | .55 |
| | Octachlorodibenzo-p-dioxin | 3 | 2 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Octachlorodibenzofuran | 3 | 2 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | Total H6CDD | 3 | 2 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | Total H6CDF | 3 | 2 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| | Total H7CDD | 3 | 2 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Total H7CDF | 3 | 2 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Total PCDD | 3 | 2 | NO | 0 | 0 | 0 | .95 | .95 | .95 |
| | Total PCDF | 3 | 2 | NO | 0 | 0 | 0 | .87 | .87 | .87 |
| | Total TCDD | 3 | 2 | NO | 0 | 0 | 0 | .55 | .55 | .55 |
| | Total TCDF | 3 | 2 | NO | 0 | 0 | 0 | .53 | .53 | .53 |
| 25 | Oil and Grease | 1 | 351 | IL | 39 | 8 | 0 | .20 | 4.80 | 1.13 |
| 26 | Abietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .74 | .74 | .74 |
| | Chlorodehydroabietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | Dehydroabietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .90 | .90 | .90 |
| | Isopimaric Acid | 3 | 3 | NO | 0 | 0 | 0 | .66 | .66 | .66 |
| | Levopimaric Acid | 3 | 3 | NO | 0 | 0 | 0 | .82 | .82 | .82 |
| | Neoabietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | Oleic Acid | 3 | 3 | NO | 0 | 0 | 0 | .88 | .88 | .88 |
| | Pimaric Acid | 3 | 3 | NO | 0 | 0 | 0 | .54 | .54 | .54 |
| 27 | PCBT | 3 | 2 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| IS1 | Iron | 1 | 51 | FH | 98 | 98 | 98 | .10 | 450.00 | 135.80 |

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%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
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RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-6
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

DOFASCO INC.
CONTROL POINT: 0700 STREAM: COKE PLANT BIOLOGICAL PLANT DISCHARGE
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 2 | Cyanide Total | 1 | 157 | FH | 100 | 100 | 100 | 76.00 | 26000.00 | 8130.40 |
| 4a | Ammonia plus Ammonium | 1 | 156 | FH | 100 | 100 | 100 | 136.00 | 880.00 | 315.92 |
| 6 | Total Phosphorus | 1 | 51 | FH | 96 | 92 | 57 | .30 | 380.00 | 34.67 |
| 8 | Total Suspended Solids | 1 | 157 | FH | 100 | 100 | 97 | 2.00 | 108.00 | 23.94 |
| | Volatile Suspended Solids | 1 | 157 | FM | 99 | 98 | 50 | .45 | 44.00 | 9.47 |
| 14 | Phenolics (4AAP) | 1 | 156 | FH | 79 | 78 | 78 | .10 | 46500.00 | 1198.70 |
| 17 | Benzene | 1 | 157 | FL | 43 | 41 | 39 | .40 | 760.00 | 70.21 |
| | Ethylbenzene | 3 | 12 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Styrene | 1 | 12 | FL | 42 | 25 | 17 | .80 | 9.00 | 2.40 |
| | Toluene | 2 | 12 | IH | 25 | 25 | 25 | .80 | 28.00 | 6.35 |
| | m-Xylene and p-Xylene | 1 | 12 | FM | 58 | 58 | 8 | .45 | 12.73 | 3.02 |
| | o-Xylene | 1 | 12 | FL | 58 | 33 | 8 | .80 | 8.00 | 2.02 |
| 19 | 1-Chloronaphthalene | 1 | 12 | FL | 42 | 33 | 0 | .32 | 3.20 | 1.39 |
| | 1-Methylnaphthalene | 1 | 12 | FL | 42 | 42 | 33 | .69 | 6.88 | 2.98 |
| | 2,4-Dinitrotoluene | 1 | 12 | FL | 42 | 42 | 33 | .63 | 6.25 | 2.71 |
| | 2,6-Dinitrotoluene | 1 | 12 | FL | 42 | 42 | 33 | .86 | 8.57 | 3.71 |
| | 2-Chloronaphthalene | 1 | 12 | FL | 42 | 42 | 33 | .50 | 5.00 | 2.17 |
| | 2-Methylnaphthalene | 1 | 12 | FL | 42 | 42 | 33 | .68 | 6.82 | 2.95 |
| | 4-Bromophenyl Phenyl Ether | 1 | 12 | FL | 42 | 42 | 42 | 1.00 | 10.00 | 4.33 |
| | 4-Chlorophenyl Phenyl Ether | 1 | 12 | FL | 42 | 42 | 42 | 1.00 | 10.00 | 4.33 |
| | 5-Nitro, Acenaphthene | 1 | 12 | FL | 42 | 42 | 0 | .42 | 4.19 | 1.81 |
| | Acenaphthene | 1 | 12 | FL | 42 | 42 | 33 | .54 | 5.38 | 2.33 |
| | Acenaphthylene | 1 | 12 | FH | 75 | 75 | 67 | .29 | 42.86 | 13.65 |
| | Anthracene | 1 | 12 | FL | 50 | 42 | 42 | .17 | 9.17 | 3.39 |
| | Benzo(a)anthracene | 1 | 12 | FH | 100 | 100 | 100 | 32.00 | 300.00 | 102.50 |
| | Benzo(a)pyrene | 1 | 157 | FH | 92 | 92 | 92 | .83 | 2500.00 | 101.11 |
| | Benzo(b)fluoranthene | 1 | 12 | FH | 92 | 92 | 92 | .57 | 200.00 | 82.90 |
| | Benzo(g,h,i)perylene | 1 | 12 | FH | 75 | 75 | 75 | .57 | 91.43 | 24.70 |
| | Benzo(k)fluoranthene | 1 | 12 | FH | 67 | 67 | 67 | .57 | 135.71 | 25.90 |
| | Benzobutylphthalate | 1 | 12 | FL | 42 | 42 | 42 | 1.00 | 10.00 | 4.33 |
| | Bis(2-chloroethoxyl)methane | 1 | 12 | FL | 42 | 33 | 0 | .37 | 3.71 | 1.61 |
| | Bis(2-chloroethyl)ether | 1 | 12 | FL | 42 | 42 | 0 | .41 | 4.09 | 1.77 |
| | Bis(2-chloroisopropyl)ether | 1 | 12 | FL | 42 | 42 | 33 | .68 | 6.82 | 2.95 |
| | Bis(2-ethylhexyl)phthalate | 1 | 12 | FM | 58 | 58 | 42 | .64 | 6.36 | 3.39 |
| | Camphene | 1 | 12 | FL | 42 | 33 | 0 | .29 | 2.86 | 1.24 |
| | Chrysene | 1 | 12 | FH | 100 | 100 | 100 | 63.33 | 433.33 | 162.50 |
| | Di-n-butyl Phthalate | 1 | 12 | FL | 42 | 33 | 0 | .29 | 2.89 | 1.25 |
| | Di-n-octyl Phthalate | 1 | 12 | FL | 42 | 42 | 0 | .40 | 4.00 | 1.73 |
| | Dibenz(a,h)anthracene | 1 | 12 | FL | 50 | 50 | 33 | .31 | 16.15 | 4.22 |

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%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-6 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

DOFASCO INC.
CONTROL POINT: 0700 STREAM: COKE PLANT BIOLOGICAL PLANT DISCHARGE
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Diphenylamine | 1 | 12 | IL | 33 | 0 | 0 | .14 | 1.36 | .59 |
| | Fluoranthene | 1 | 12 | FH | 100 | 100 | 100 | 37.50 | 650.00 | 181.04 |
| | Fluorene | 1 | 12 | FL | 42 | 33 | 17 | .18 | 8.82 | 2.35 |
| | Indeno(1,2,3-cd)pyrene | 1 | 12 | FH | 75 | 75 | 67 | .46 | 47.69 | 14.91 |
| | Indole | 1 | 12 | FL | 42 | 33 | 33 | .63 | 478.95 | 71.26 |
| | N-Nitrosodi-n-propylamine | 1 | 12 | FL | 42 | 42 | 33 | .68 | 6.77 | 2.94 |
| | N-Nitrosodiphenylamine | 1 | 12 | IL | 33 | 0 | 0 | .14 | 1.36 | .59 |
| | Naphthalene | 1 | 157 | FL | 52 | 34 | 20 | .19 | 381.25 | 6.26 |
| | Perylene | 1 | 12 | FH | 75 | 75 | 58 | .20 | 19.33 | 7.72 |
| | Phenanthrene | 1 | 12 | FM | 58 | 58 | 50 | .75 | 52.50 | 16.19 |
| | Pyrene | 1 | 12 | FH | 100 | 100 | 100 | 50.00 | 500.00 | 168.54 |
| 25 | Oil and Grease | 1 | 154 | FL | 56 | 22 | 3 | .20 | 39.00 | 1.85 |

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%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
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RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-7
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

STELCO STEEL HILTON WORKS
CONTROL POINT: 0100 STREAM: WEST SIDE OPEN CUT
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 2 | Cyanide Total | 1 | 72 | FH | 97 | 93 | 79 | .80 | 62.00 | 11.60 |
| 3 | Hydrogen Ion (pH) | 1 | 124 | FH | 100 | 100 | 100 | .00 | .00 | .00 |
| 4a | Ammonia plus Ammonium | 1 | 73 | FH | 82 | 73 | 22 | .16 | 7.20 | 3.45 |
| | Total Kjeldahl Nitrogen | 1 | 3 | FH | 100 | 100 | 0 | 2.00 | 2.80 | 2.53 |
| 4b | Nitrate+Nitrite | 1 | 3 | FH | 100 | 100 | 100 | 10.00 | 14.40 | 12.00 |
| 5a | DOC | 1 | 57 | FH | 100 | 100 | 95 | 4.00 | 16.80 | 8.69 |
| 5b | TOC | 1 | 3 | FL | 67 | 0 | 0 | .96 | 1.70 | 1.28 |
| 6 | Total Phosphorus | 3 | 23 | NO | 4 | 0 | 0 | .10 | 1.00 | .54 |
| 7 | Specific Conductance | 1 | 120 | FH | 100 | 100 | 100 | 122.00 | 200.00 | 162.48 |
| 8 | Total Suspended Solids | 1 | 140 | FL | 99 | 21 | 1 | .96 | 5.00 | 1.64 |
| | Volatile Suspended Solids | 3 | 140 | NO | 0 | 0 | 0 | .20 | .90 | .37 |
| 9 | Aluminum | 1 | 5 | FM | 100 | 100 | 40 | 2.00 | 11.67 | 6.23 |
| | Beryllium | 3 | 5 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | Cadmium | 2 | 5 | IL | 40 | 20 | 0 | 1.00 | 3.00 | 1.50 |
| | Chromium | 2 | 57 | IL | 11 | 2 | 0 | .15 | 3.40 | .55 |
| | Cobalt | 3 | 5 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Copper | 1 | 5 | FL | 60 | 40 | 0 | .50 | 3.00 | 1.40 |
| | Lead | 2 | 57 | IL | 5 | 0 | 0 | .20 | 1.40 | .27 |
| | Molybdenum | 3 | 5 | NO | 0 | 0 | 0 | .30 | .60 | .50 |
| | Nickel | 3 | 5 | NO | 0 | 0 | 0 | .45 | .90 | .60 |
| | Silver | 3 | 5 | NO | 0 | 0 | 0 | .10 | .23 | .13 |
| | Thallium | 3 | 5 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Vanadium | 1 | 5 | FM | 100 | 80 | 40 | 1.83 | 6.00 | 3.57 |
| | Zinc | 1 | 73 | FM | 96 | 92 | 40 | .90 | 19.00 | 5.50 |
| 10 | Antimony | 3 | 5 | NO | 0 | 0 | 0 | .40 | .40 | .40 |
| | Arsenic | 3 | 5 | NO | 0 | 0 | 0 | .40 | .40 | .40 |
| | Selenium | 3 | 5 | NO | 0 | 0 | 0 | .20 | .60 | .40 |
| 11 | Chromium (hexavalent) | 2 | 3 | IL | 33 | 0 | 0 | .60 | 1.40 | .90 |
| 12 | Mercury | 3 | 5 | NO | 0 | 0 | 0 | .19 | .19 | .19 |
| 14 | Phenolics (4AAP) | 1 | 72 | FM | 100 | 94 | 47 | 1.00 | 140.00 | 9.12 |
| 15 | Sulphide | 1 | 3 | FL | 67 | 33 | 0 | .95 | 2.00 | 1.30 |
| 16 | 1,1,2,2-Tetrachloroethane | 3 | 5 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 1,1,2-Trichloroethane | 2 | 5 | IL | 20 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,1-Dichloroethane | 3 | 5 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 1,1-Dichloroethylene | 3 | 5 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | 1,2-Dichlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | 1,2-Dichloroethane | 3 | 5 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 1,2-Dichloropropane | 3 | 5 | NO | 0 | 0 | 0 | .56 | .56 | .56 |
| | 1,3-Dichlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .27 | .27 | .27 |
| | 1,4-Dichlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .12 | .12 | .12 |
| | Bromoform | 2 | 5 | IM | 20 | 20 | 0 | .10 | 2.97 | .67 |
| | Bromomethane | 3 | 5 | NO | 0 | 0 | 0 | .65 | .65 | .65 |
| | Carbon Tetrachloride | 3 | 5 | NO | 0 | 0 | 0 | .23 | .23 | .23 |

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CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-7 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

STELCO STEEL HILTON WORKS
CONTROL POINT: 0100 STREAM: WEST SIDE OPEN CUT
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 16 | Chlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .86 | .86 | .86 |
| | Chloroform | 3 | 5 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Chloromethane | 3 | 5 | NO | 0 | 0 | 0 | .62 | .62 | .62 |
| | Cis-1,3-Dichloropropylene | 3 | 5 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Dibromochloromethane | 2 | 5 | IH | 20 | 20 | 20 | .36 | 5.82 | 1.45 |
| | Ethylene Dibromide | 3 | 5 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | Methylene Chloride | 3 | 5 | NO | 0 | 0 | 0 | .23 | .23 | .23 |
| | Tetrachloroethylene | 3 | 5 | NO | 0 | 0 | 0 | .18 | .18 | .18 |
| | Trans-1,2-Dichloroethylene | 3 | 5 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Trans-1,3-Dichloropropylene | 3 | 5 | NO | 0 | 0 | 0 | .79 | .79 | .79 |
| | Trichloroethylene | 3 | 5 | NO | 0 | 0 | 0 | .16 | .16 | .16 |
| | Trichlorofluoromethane | 3 | 5 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Vinyl Chloride | 3 | 5 | NO | 0 | 0 | 0 | .72 | .72 | .72 |
| 17 | Benzene | 2 | 53 | IH | 15 | 15 | 11 | .40 | 24.00 | 1.89 |
| | Ethylbenzene | 3 | 5 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Styrene | 3 | 5 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | Toluene | 3 | 5 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | m-Xylene and p-Xylene | 3 | 5 | NO | 0 | 0 | 0 | .45 | .70 | .50 |
| | o-Xylene | 3 | 5 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| 19 | 1-Chloronaphthalene | 3 | 5 | NO | 0 | 0 | 0 | .32 | .32 | .32 |
| | 1-Methylnaphthalene | 3 | 5 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | 2,4-Dinitrotoluene | 3 | 5 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 3 | 5 | NO | 0 | 0 | 0 | .86 | .86 | .86 |
| | 2-Chloronaphthalene | 3 | 5 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 2-Methylnaphthalene | 3 | 5 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | 4-Bromophenyl Phenyl Ether | 2 | 5 | IL | 20 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 2 | 5 | IL | 20 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 5-Nitro, Acenaphthene | 3 | 5 | NO | 0 | 0 | 0 | .42 | .42 | .42 |
| | Acenaphthene | 3 | 5 | NO | 0 | 0 | 0 | .54 | .54 | .54 |
| | Acenaphthylene | 3 | 5 | NO | 0 | 0 | 0 | .29 | .64 | .36 |
| | Anthracene | 3 | 5 | NO | 0 | 0 | 0 | .17 | .42 | .22 |
| | Benzo(a)anthracene | 2 | 5 | IL | 40 | 20 | 0 | .40 | 3.80 | 1.36 |
| | Benzo(a)pyrene | 1 | 53 | IL | 19 | 8 | 0 | .83 | 3.67 | 1.07 |
| | Benzo(b)fluoranthene | 2 | 5 | IM | 20 | 20 | 0 | .57 | 4.14 | 1.29 |
| | Benzo(g,h,i)perylene | 3 | 5 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Benzo(k)fluoranthene | 2 | 5 | IH | 40 | 20 | 20 | .57 | 5.14 | 1.74 |
| | Benzobutylphthalate | 2 | 5 | IL | 20 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Bis(2-chloroethoxyl)methane | 3 | 5 | NO | 0 | 0 | 0 | .37 | .37 | .37 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
GROUP 2 = PARAMETERS NOT SELECTED BUT DETECTED ABOVE RMDL
GROUP 3 = PARAMETERS NOT DETECTED ABOVE RMDL
TNS = NUMBER OF VALID SAMPLES
%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-7 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

STELCO STEEL HILTON WORKS
CONTROL POINT: 0100 STREAM: WEST SIDE OPEN CUT
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Bis(2-chloroethyl)ether | 3 | 5 | NO | 0 | 0 | 0 | .41 | .41 | .41 |
| | Bis(2-chloroisopropyl)ether | 3 | 5 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | Bis(2-ethylhexyl)phthalate | 3 | 5 | NO | 0 | 0 | 0 | .64 | .64 | .64 |
| | Camphene | 3 | 5 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Chrysene | 1 | 5 | FL | 60 | 40 | 20 | 1.00 | 5.33 | 2.47 |
| | Di-n-butyl Phthalate | 3 | 5 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Di-n-octyl Phthalate | 3 | 5 | NO | 0 | 0 | 0 | .40 | .75 | .48 |
| | Dibenz(a,h)anthracene | 3 | 5 | NO | 0 | 0 | 0 | .31 | .31 | .31 |
| | Diphenylamine | 3 | 5 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | Fluoranthene | 1 | 5 | FM | 60 | 60 | 40 | .50 | 11.50 | 4.80 |
| | Fluorene | 3 | 5 | NO | 0 | 0 | 0 | .18 | .44 | .24 |
| | Indeno(1,2,3-cd)pyrene | 3 | 5 | NO | 0 | 0 | 0 | .46 | .50 | .47 |
| | Indole | 3 | 5 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | N-Nitrosodi-n-propylamine | 3 | 5 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | N-Nitrosodiphenylamine | 3 | 5 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | Naphthalene | 3 | 53 | NO | 0 | 0 | 0 | .19 | .19 | .19 |
| | Perylene | 3 | 5 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Phenanthrene | 1 | 5 | FL | 60 | 40 | 20 | .75 | 6.25 | 2.70 |
| | Pyrene | 1 | 5 | FM | 80 | 60 | 40 | .75 | 8.75 | 3.85 |
| 20 | 2,3,4,5-Tetrachlorophenol | 2 | 5 | IL | 20 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,4,6-Tetrachlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .25 | .25 | .25 |
| | 2,3,4-Trichlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | 2,3,5,6-Tetrachlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .44 | .44 | .44 |
| | 2,3,5-Trichlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .31 | .31 | .31 |
| | 2,4,5-Trichlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | 2,4,6-Trichlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .92 | .92 | .92 |
| | 2,4-Dichlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .71 | .71 | .71 |
| | 2,4-Dimethylphenol | 3 | 5 | NO | 0 | 0 | 0 | .23 | .23 | .23 |
| | 2,4-Dinitrophenol | 3 | 5 | NO | 0 | 0 | 0 | .11 | .11 | .11 |
| | 2,6-Dichlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .55 | .55 | .55 |
| | 2-Chlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | 4,6-Dinitro-o-cresol | 3 | 5 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 4-Chloro-3-methylphenol | 3 | 5 | NO | 0 | 0 | 0 | .93 | .93 | .93 |
| | 4-Nitrophenol | 2 | 5 | IL | 20 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .85 | .85 | .85 |
| | Phenol | 3 | 5 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | m-Cresol | 3 | 5 | NO | 0 | 0 | 0 | .88 | .88 | .88 |
| | o-Cresol | 3 | 5 | NO | 0 | 0 | 0 | .46 | .46 | .46 |

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%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-7 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

STELCO STEEL HILTON WORKS
CONTROL POINT: 0100 STREAM: WEST SIDE OPEN CUT
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 20 | p-Cresol | 2 | 5 | IL | 20 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .90 | .90 | .90 |
| | 1,2,3,5-Tetrachlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 1,2,3-Trichlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .90 | .90 | .90 |
| | 1,2,4,5-Tetrachlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 1,2,4-Trichlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | 2,4,5-Trichlorotoluene | 3 | 5 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Hexachlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .30 | .40 | .30 |
| | Hexachlorobutadiene | 3 | 5 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Hexachlorocyclopentadiene | 3 | 5 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Hexachloroethane | 3 | 5 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Octachlorostyrene | 3 | 5 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Pentachlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| 25 | Oil and Grease | 1 | 140 | FL | 72 | 24 | 1 | .96 | 12.00 | 1.64 |
| 26 | Abietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .74 | .74 | .74 |
| | Chlorodehydroabietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | Dehydroabietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .90 | .90 | .90 |
| | Isopimaric Acid | 3 | 3 | NO | 0 | 0 | 0 | .66 | .66 | .66 |
| | Levopimaric Acid | 3 | 3 | NO | 0 | 0 | 0 | .82 | .82 | .82 |
| | Neoabietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | Oleic Acid | 3 | 3 | NO | 0 | 0 | 0 | .88 | .88 | .88 |
| | Pimaric Acid | 3 | 3 | NO | 0 | 0 | 0 | .54 | .54 | .54 |
| IS1 | Iron | 1 | 39 | FH | 100 | 100 | 97 | 4.00 | 80.00 | 20.25 |

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CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-8
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

STELCO STEEL HILTON WORKS
CONTROL POINT: 0601 STREAM: EAST SIDE FILTER PLANT
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 2 | Cyanide Total | 1 | 117 | FH | 95 | 92 | 71 | .40 | 20.00 | 6.80 |
| 3 | Hydrogen Ion (pH) | 1 | 271 | FH | 100 | 100 | 100 | .00 | .00 | .00 |
| 4a | Ammonia plus Ammonium | 1 | 116 | FM | 83 | 68 | 5 | .16 | 6.80 | 2.56 |
| | Total Kjeldahl Nitrogen | 1 | 3 | FL | 100 | 33 | 0 | 1.36 | 2.40 | 1.83 |
| 4b | Nitrate+Nitrite | 1 | 3 | FH | 100 | 100 | 100 | 5.20 | 11.60 | 9.07 |
| 5a | DOC | 1 | 117 | FH | 100 | 100 | 85 | 2.60 | 42.00 | 10.22 |
| 5b | TOC | 2 | 3 | IL | 33 | 0 | 0 | .72 | 1.40 | .99 |
| 6 | Total Phosphorus | 3 | 39 | NO | 0 | 0 | 0 | .10 | .90 | .35 |
| 7 | Specific Conductance | 1 | 271 | FH | 100 | 100 | 100 | 94.00 | 152.00 | 131.96 |
| 8 | Total Suspended Solids | 1 | 271 | FL | 45 | 14 | 1 | .81 | 26.00 | 1.36 |
| | Volatile Suspended Solids | 3 | 271 | NO | 0 | 0 | 0 | .28 | 1.30 | .32 |
| 9 | Aluminum | 1 | 9 | FH | 100 | 100 | 67 | 2.33 | 14.00 | 7.87 |
| | Beryllium | 3 | 9 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | Cadmium | 1 | 9 | FL | 44 | 11 | 11 | 1.00 | 5.00 | 1.50 |
| | Chromium | 2 | 117 | IL | 9 | 2 | 0 | .15 | 3.00 | .55 |
| | Cobalt | 2 | 9 | IL | 11 | 0 | 0 | .20 | 1.00 | .30 |
| | Copper | 1 | 9 | FM | 89 | 78 | 33 | .50 | 9.00 | 4.00 |
| | Lead | 2 | 117 | IL | 2 | 0 | 0 | .20 | 1.80 | .23 |
| | Molybdenum | 2 | 9 | IL | 11 | 0 | 0 | .30 | 1.00 | .50 |
| | Nickel | 1 | 9 | FL | 67 | 11 | 0 | .45 | 2.20 | 1.20 |
| | Silver | 3 | 9 | NO | 0 | 0 | 0 | .10 | .23 | .17 |
| | Thallium | 3 | 9 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Vanadium | 1 | 9 | FL | 67 | 33 | 0 | .67 | 3.33 | 1.73 |
| | Zinc | 1 | 117 | FM | 94 | 85 | 44 | .40 | 25.00 | 5.20 |
| 10 | Antimony | 3 | 9 | NO | 0 | 0 | 0 | .40 | .60 | .40 |
| | Arsenic | 2 | 9 | IL | 11 | 0 | 0 | .40 | 1.20 | .40 |
| | Selenium | 3 | 9 | NO | 0 | 0 | 0 | .20 | .40 | .20 |
| 11 | Chromium (hexavalent) | 3 | 2 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| 12 | Mercury | 3 | 9 | NO | 0 | 0 | 0 | .10 | .19 | .17 |
| 14 | Phenolics (4AAP) | 1 | 117 | FH | 100 | 84 | 53 | 1.15 | 40.00 | 7.96 |
| 15 | Sulphide | 2 | 3 | IL | 33 | 0 | 0 | .95 | 1.50 | 1.15 |
| 16 | 1,1,2,2-Tetrachloroethane | 3 | 9 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 1,1,2-Trichloroethane | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,1-Dichloroethane | 3 | 9 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 1,1-Dichloroethylene | 3 | 9 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | 1,2-Dichlorobenzene | 3 | 9 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | 1,2-Dichloroethane | 3 | 9 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 1,2-Dichloropropane | 3 | 9 | NO | 0 | 0 | 0 | .56 | .56 | .56 |
| | 1,3-Dichlorobenzene | 3 | 9 | NO | 0 | 0 | 0 | .27 | .27 | .27 |
| | 1,4-Dichlorobenzene | 3 | 9 | NO | 0 | 0 | 0 | .12 | .12 | .12 |
| | Bromoform | 3 | 9 | NO | 0 | 0 | 0 | .10 | .11 | .10 |
| | Bromomethane | 3 | 9 | NO | 0 | 0 | 0 | .65 | .65 | .65 |
| | Carbon Tetrachloride | 3 | 9 | NO | 0 | 0 | 0 | .23 | .23 | .23 |

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CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-8 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

STELCO STEEL MILTON WORKS
CONTROL POINT: 0601 STREAM: EAST SIDE FILTER PLANT
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 16 | Chlorobenzene | 3 | 9 | NO | 0 | 0 | 0 | .86 | .86 | .86 |
| | Chloroform | 2 | 9 | IH | 11 | 11 | 11 | .57 | 6.00 | 1.17 |
| | Chloromethane | 3 | 9 | NO | 0 | 0 | 0 | .62 | .62 | .62 |
| | Cis-1,3-Dichloropropylene | 3 | 9 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Dibromochloromethane | 2 | 9 | IM | 11 | 11 | 0 | .36 | 3.82 | .75 |
| | Ethylene Dibromide | 3 | 9 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | Methylene Chloride | 3 | 9 | NO | 0 | 0 | 0 | .23 | .23 | .23 |
| | Tetrachloroethylene | 3 | 9 | NO | 0 | 0 | 0 | .18 | .18 | .18 |
| | Trans-1,2-Dichloroethylene | 3 | 9 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Trans-1,3-Dichloropropylene | 3 | 9 | NO | 0 | 0 | 0 | .79 | .79 | .79 |
| | Trichloroethylene | 3 | 9 | NO | 0 | 0 | 0 | .16 | .16 | .16 |
| | Trichlorofluoromethane | 3 | 9 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Vinyl Chloride | 3 | 9 | NO | 0 | 0 | 0 | .72 | .72 | .72 |
| 17 | Benzene | 1 | 117 | IH | 15 | 14 | 12 | .40 | 260.00 | 8.11 |
| | Ethylbenzene | 3 | 9 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Styrene | 2 | 9 | IL | 11 | 0 | 0 | .80 | 1.20 | .84 |
| | Toluene | 2 | 9 | IH | 11 | 11 | 11 | .80 | 7.20 | 1.51 |
| | m-Xylene and p-Xylene | 2 | 9 | IL | 11 | 0 | 0 | .45 | 1.64 | .59 |
| | o-Xylene | 2 | 9 | IL | 22 | 0 | 0 | .80 | 1.60 | .91 |
| 19 | 1-Chloronaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .32 | .32 | .32 |
| | 1-Methylnaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | 2,4-Dinitrotoluene | 3 | 9 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 2 | 9 | IL | 11 | 0 | 0 | .86 | 1.43 | .92 |
| | 2-Chloronaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 2-Methylnaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | 4-Bromophenyl Phenyl Ether | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 5-Nitro, Acenaphthene | 3 | 9 | NO | 0 | 0 | 0 | .42 | .42 | .42 |
| | Acenaphthene | 3 | 9 | NO | 0 | 0 | 0 | .54 | .54 | .54 |
| | Acenaphthylene | 3 | 9 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Anthracene | 3 | 9 | NO | 0 | 0 | 0 | .17 | .17 | .17 |
| | Benzo(a)anthracene | 3 | 9 | NO | 0 | 0 | 0 | .40 | .40 | .40 |
| | Benzo(a)pyrene | 2 | 116 | IL | 2 | 0 | 0 | .83 | 1.83 | .84 |
| | Benzo(b)fluoranthene | 3 | 9 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Benzo(g,h,i)perylene | 3 | 9 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Benzo(k)fluoranthene | 3 | 9 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Benzobutylphthalate | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Bis(2-chloroethoxyl)methane | 3 | 9 | NO | 0 | 0 | 0 | .37 | .37 | .37 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
GROUP 2 = PARAMETERS NOT SELECTED BUT DETECTED ABOVE RMDL
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CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-8 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

STELCO STEEL HILTON WORKS
CONTROL POINT: 0601 STREAM: EAST SIDE FILTER PLANT
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Bis(2-chloroethyl)ether | 3 | 9 | NO | 0 | 0 | 0 | .41 | .41 | .41 |
| | Bis(2-chloroisopropyl)ether | 3 | 9 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | Bis(2-ethylhexyl)phthalate | 3 | 9 | NO | 0 | 0 | 0 | .64 | .64 | .64 |
| | Camphene | 3 | 9 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Chrysene | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Di-n-butyl Phthalate | 3 | 9 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Di-n-octyl Phthalate | 2 | 5 | IL | 20 | 0 | 0 | .40 | 1.15 | .62 |
| | Dibenz(a,h)anthracene | 3 | 9 | NO | 0 | 0 | 0 | .31 | .31 | .31 |
| | Diphenylamine | 3 | 9 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | Fluoranthene | 3 | 9 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Fluorene | 3 | 9 | NO | 0 | 0 | 0 | .18 | .18 | .18 |
| | Indeno(1,2,3-cd)pyrene | 3 | 9 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | Indole | 2 | 9 | IL | 11 | 0 | 0 | .63 | 1.21 | .70 |
| | N-Nitrosodi-n-propylamine | 3 | 9 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | N-Nitrosodiphenylamine | 3 | 9 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | Naphthalene | 3 | 116 | NO | 0 | 0 | 0 | .19 | .19 | .19 |
| | Perylene | 3 | 9 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Phenanthrene | 3 | 9 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| | Pyrene | 3 | 9 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| 20 | 2,3,4,5-Tetrachlorophenol | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,4,6-Tetrachlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .25 | .25 | .25 |
| | 2,3,4-Trichlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | 2,3,5,6-Tetrachlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .44 | .44 | .44 |
| | 2,3,5-Trichlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .31 | .31 | .31 |
| | 2,4,5-Trichlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | 2,4,6-Trichlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .92 | .92 | .92 |
| | 2,4-Dichlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .71 | .71 | .71 |
| | 2,4-Dimethylphenol | 3 | 9 | NO | 0 | 0 | 0 | .23 | .23 | .23 |
| | 2,4-Dinitrophenol | 3 | 9 | NO | 0 | 0 | 0 | .11 | .11 | .11 |
| | 2,6-Dichlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .55 | .55 | .55 |
| | 2-Chlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | 4,6-Dinitro-o-cresol | 3 | 9 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 4-Chloro-3-methylphenol | 3 | 9 | NO | 0 | 0 | 0 | .93 | .93 | .93 |
| | 4-Nitrophenol | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .85 | .85 | .85 |
| | Phenol | 3 | 9 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | m-Cresol | 3 | 9 | NO | 0 | 0 | 0 | .88 | .88 | .88 |
| | o-Cresol | 3 | 9 | NO | 0 | 0 | 0 | .46 | .46 | .46 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
GROUP 2 = PARAMETERS NOT SELECTED BUT DETECTED ABOVE RMDL
GROUP 3 = PARAMETERS NOT DETECTED ABOVE RMDL
TNS = NUMBER OF VALID SAMPLES
%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-8 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

STELCO STEEL HILTON WORKS
CONTROL POINT: 0601 STREAM: EAST SIDE FILTER PLANT
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 20 | p-Cresol | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 3 | 9 | NO | 0 | 0 | 0 | .90 | .90 | .90 |
| | 1,2,3,5-Tetrachlorobenzene | 3 | 9 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 1,2,3-Trichlorobenzene | 3 | 9 | NO | 0 | 0 | 0 | .90 | .90 | .90 |
| | 1,2,4,5-Tetrachlorobenzene | 3 | 9 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 1,2,4-Trichlorobenzene | 3 | 9 | NO | 0 | 0 | 0 | .60 | .80 | .60 |
| | 2,4,5-Trichlorotoluene | 3 | 9 | NO | 0 | 0 | 0 | .30 | .70 | .30 |
| | Hexachlorobenzene | 3 | 9 | NO | 0 | 0 | 0 | .30 | .60 | .30 |
| | Hexachlorobutadiene | 3 | 9 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Hexachlorocyclopentadiene | 2 | 9 | IL | 11 | 0 | 0 | .50 | 1.30 | .60 |
| | Hexachloroethane | 2 | 9 | IH | 22 | 22 | 22 | .20 | 6.00 | 1.50 |
| | Octachlorostyrene | 3 | 9 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Pentachlorobenzene | 2 | 9 | IL | 11 | 0 | 0 | .20 | 1.20 | .40 |
| 24 | 2,3,7,8 TCDD | 3 | 1 | NO | 0 | 0 | 0 | .55 | .55 | .55 |
| | Octachlorodibenzo-p-dioxin | 3 | 1 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Octachlorodibenzofuran | 3 | 1 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | Total H6CDD | 3 | 1 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | Total H6CDF | 3 | 1 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| | Total H7CDD | 3 | 1 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Total H7CDF | 3 | 1 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Total PCDD | 3 | 1 | NO | 0 | 0 | 0 | .95 | .95 | .95 |
| | Total PCDF | 3 | 1 | NO | 0 | 0 | 0 | .87 | .87 | .87 |
| | Total TCDD | 3 | 1 | NO | 0 | 0 | 0 | .55 | .55 | .55 |
| | Total TCDF | 3 | 1 | NO | 0 | 0 | 0 | .53 | .53 | .53 |
| 25 | Oil and Grease | 1 | 270 | FH | 94 | 58 | 1 | .96 | 5.90 | 2.13 |
| 26 | Abietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .74 | .74 | .74 |
| | Chlorodehydroabietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | Oehydroabietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .90 | .90 | .90 |
| | Isopimaric Acid | 3 | 3 | NO | 0 | 0 | 0 | .66 | .66 | .66 |
| | Levopimaric Acid | 3 | 3 | NO | 0 | 0 | 0 | .82 | .82 | .82 |
| | Neoabietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | Oleic Acid | 3 | 3 | NO | 0 | 0 | 0 | .88 | .88 | .88 |
| | Pimaric Acid | 3 | 3 | NO | 0 | 0 | 0 | .54 | .54 | .54 |
| 27 | PCBT | 3 | 1 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| IS1 | Iron | 1 | 39 | FH | 100 | 100 | 100 | 5.00 | 155.00 | 42.75 |

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CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-9
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0100 STREAM: #4 POND DISCHARGE
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 2 | Cyanide Total | 1 | 115 | FH | 97 | 96 | 78 | .40 | 18.00 | 8.00 |
| 3 | Hydrogen Ion (pH) | 1 | 268 | FH | 100 | 100 | 100 | .00 | .00 | .00 |
| 4a | Ammonia plus Ammonium | 2 | 112 | IL | 5 | 2 | 0 | .10 | 3.64 | .36 |
| | Total Kjeldahl Nitrogen | 1 | 3 | FL | 100 | 0 | 0 | 1.02 | 1.18 | 1.11 |
| 4b | Nitrate+Nitrite | 1 | 3 | FH | 100 | 100 | 67 | 2.40 | 16.40 | 10.53 |
| 5a | DOC | 1 | 116 | FH | 100 | 100 | 82 | 3.60 | 62.60 | 9.43 |
| 5b | TOC | 3 | 3 | NO | 0 | 0 | 0 | .50 | .68 | .61 |
| 6 | Total Phosphorus | 1 | 38 | FL | 47 | 18 | 0 | .80 | 4.30 | 1.35 |
| 7 | Specific Conductance | 1 | 267 | FH | 100 | 100 | 100 | 124.00 | 220.00 | 180.78 |
| 8 | Total Suspended Solids | 1 | 268 | FL | 75 | 19 | 0 | .94 | 3.86 | 1.50 |
| | Volatile Suspended Solids | 3 | 268 | NO | 0 | 0 | 0 | .10 | 1.01 | .21 |
| 9 | Aluminum | 1 | 9 | FH | 100 | 89 | 89 | 1.00 | 28.80 | 11.70 |
| | Beryllium | 3 | 9 | NO | 0 | 0 | 0 | .60 | 1.00 | .60 |
| | Cadmium | 1 | 37 | FL | 41 | 27 | 14 | 1.00 | 45.00 | 4.00 |
| | Chromium | 3 | 40 | NO | 10 | 0 | 0 | .20 | 1.50 | .45 |
| | Cobalt | 3 | 9 | NO | 0 | 0 | 0 | .20 | 1.00 | .30 |
| | Copper | 1 | 40 | FL | 58 | 18 | 3 | .20 | 7.00 | 1.20 |
| | Lead | 2 | 39 | IM | 13 | 10 | 3 | .20 | 7.67 | .70 |
| | Molybdenum | 2 | 9 | IL | 33 | 0 | 0 | .45 | 1.60 | .90 |
| | Nickel | 2 | 9 | IL | 22 | 0 | 0 | .45 | 1.60 | .70 |
| | Silver | 3 | 9 | NO | 0 | 0 | 0 | .10 | 1.00 | .20 |
| | Thallium | 3 | 9 | NO | 0 | 0 | 0 | .10 | 1.00 | .20 |
| | Vanadium | 2 | 9 | IH | 33 | 11 | 11 | .20 | 5.93 | 1.43 |
| | Zinc | 1 | 39 | FH | 90 | 85 | 51 | .90 | 58.00 | 9.90 |
| 10 | Antimony | 3 | 9 | NO | 0 | 0 | 0 | .40 | 1.00 | .60 |
| | Arsenic | 3 | 9 | NO | 0 | 0 | 0 | .40 | 1.00 | .40 |
| | Selenium | 1 | 9 | FM | 100 | 78 | 0 | 1.20 | 4.80 | 3.40 |
| 11 | Chromium (hexavalent) | 2 | 3 | IL | 33 | 0 | 0 | 1.00 | 1.40 | 1.10 |
| 12 | Mercury | 1 | 9 | FM | 78 | 67 | 44 | .10 | 14.00 | 4.80 |
| 14 | Phenolics (4AAP) | 1 | 115 | IL | 38 | 4 | 0 | .25 | 2.25 | .94 |
| 15 | Sulphide | 2 | 3 | IM | 33 | 33 | 0 | .95 | 2.00 | 1.30 |
| 16 | 1,1,2,2-Tetrachloroethane | 3 | 9 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 1,1,2-Trichloroethane | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,1-Dichloroethane | 3 | 9 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 1,1-Dichloroethylene | 3 | 9 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | 1,2-Dichlorobenzene | 3 | 9 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | 1,2-Dichloroethane | 3 | 9 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 1,2-Dichloropropane | 3 | 9 | NO | 0 | 0 | 0 | .56 | .56 | .56 |
| | 1,3-Dichlorobenzene | 3 | 9 | NO | 0 | 0 | 0 | .27 | .27 | .27 |
| | 1,4-Dichlorobenzene | 3 | 9 | NO | 0 | 0 | 0 | .12 | .12 | .12 |
| | Bromoform | 1 | 9 | FH | 89 | 89 | 89 | .10 | 24.32 | 9.05 |
| | Bromomethane | 2 | 9 | IL | 11 | 0 | 0 | .65 | 1.00 | .69 |

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RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-9 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0100 STREAM: #4 POND DISCHARGE
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 16 | Carbon Tetrachloride | 3 | 9 | NO | 0 | 0 | 0 | .23 | .23 | .23 |
| | Chlorobenzene | 3 | 9 | NO | 0 | 0 | 0 | .86 | .86 | .86 |
| | Chloroform | 1 | 9 | FM | 78 | 78 | 33 | .57 | 12.86 | 4.27 |
| | Chloromethane | 3 | 9 | NO | 0 | 0 | 0 | .62 | .62 | .62 |
| | Cis-1,3-Dichloropropylene | 3 | 9 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Dibromochloromethane | 1 | 9 | FH | 100 | 100 | 100 | 7.09 | 60.91 | 22.00 |
| | Ethylene Dibromide | 3 | 9 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | Methylene Chloride | 2 | 9 | IH | 11 | 11 | 11 | .23 | 7.08 | .99 |
| | Tetrachloroethylene | 3 | 9 | NO | 0 | 0 | 0 | .18 | .18 | .18 |
| | Trans-1,2-Dichloroethylene | 3 | 9 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Trans-1,3-Dichloropropylene | 3 | 9 | NO | 0 | 0 | 0 | .79 | .79 | .79 |
| | Trichloroethylene | 3 | 9 | NO | 0 | 0 | 0 | .16 | .16 | .16 |
| | Trichlorofluoromethane | 3 | 9 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Vinyl Chloride | 3 | 9 | NO | 0 | 0 | 0 | .72 | .72 | .72 |
| 17 | Benzene | 3 | 9 | NO | 0 | 0 | 0 | .40 | .40 | .40 |
| | Ethylbenzene | 3 | 9 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Styrene | 3 | 9 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | Toluene | 3 | 9 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | m-Xylene and p-Xylene | 3 | 9 | NO | 0 | 0 | 0 | .45 | .45 | .45 |
| | o-Xylene | 3 | 9 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| 19 | 1-Chloronaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .32 | .32 | .32 |
| | 1-Methylnaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | 2,4-Dinitrotoluene | 3 | 9 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 3 | 9 | NO | 0 | 0 | 0 | .86 | .86 | .86 |
| | 2-Chloronaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 2-Methylnaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | 4-Bromophenyl Phenyl Ether | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 5-Nitro, Acenaphthene | 3 | 9 | NO | 0 | 0 | 0 | .42 | .42 | .42 |
| | Acenaphthene | 3 | 9 | NO | 0 | 0 | 0 | .54 | .54 | .54 |
| | Acenaphthylene | 3 | 9 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Anthracene | 3 | 9 | NO | 0 | 0 | 0 | .17 | .17 | .17 |
| | Benzo(a)anthracene | 3 | 9 | NO | 0 | 0 | 0 | .40 | .40 | .40 |
| | Benzo(a)pyrene | 3 | 9 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | Benzo(b)fluoranthene | 3 | 9 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Benzo(g,h,i)perylene | 3 | 9 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Benzo(k)fluoranthene | 3 | 9 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Benzobutylphthalate | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |

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CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-9 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0100 STREAM: #4 POND DISCHARGE
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Bis(2-chloroethoxyl)methane | 3 | 9 | NO | 0 | 0 | 0 | .37 | .37 | .37 |
| | Bis(2-chloroethyl)ether | 3 | 9 | NO | 0 | 0 | 0 | .41 | .41 | .41 |
| | Bis(2-chloroisopropyl)ether | 3 | 9 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | Bis(2-ethylhexyl)phthalate | 2 | 9 | IM | 11 | 11 | 0 | .64 | 2.64 | .86 |
| | Camphene | 3 | 9 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Chrysene | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Di-n-butyl Phthalate | 3 | 9 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Di-n-octyl Phthalate | 3 | 9 | NO | 0 | 0 | 0 | .40 | .55 | .42 |
| | Dibenz(a,h)anthracene | 3 | 9 | NO | 0 | 0 | 0 | .31 | .31 | .31 |
| | Diphenylamine | 3 | 9 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | Fluoranthene | 3 | 9 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Fluorene | 3 | 9 | NO | 0 | 0 | 0 | .18 | .18 | .18 |
| | Indeno(1,2,3-cd)pyrene | 3 | 9 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | Indole | 3 | 9 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | N-Nitrosodi-n-propylamine | 3 | 9 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | N-Nitrosodiphenylamine | 3 | 9 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | Naphthalene | 3 | 9 | NO | 0 | 0 | 0 | .19 | .19 | .19 |
| | Perylene | 3 | 9 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Phenanthrene | 3 | 9 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| | Pyrene | 3 | 9 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| 20 | 2,3,4,5-Tetrachlorophenol | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,4,6-Tetrachlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .25 | .25 | .25 |
| | 2,3,4-Trichlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | 2,3,5,6-Tetrachlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .44 | .44 | .44 |
| | 2,3,5-Trichlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .31 | .31 | .31 |
| | 2,4,5-Trichlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | 2,4,6-Trichlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .92 | .92 | .92 |
| | 2,4-Dichlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .71 | .71 | .71 |
| | 2,4-Dimethylphenol | 3 | 9 | NO | 0 | 0 | 0 | .23 | .23 | .23 |
| | 2,4-Dinitrophenol | 3 | 9 | NO | 0 | 0 | 0 | .11 | .11 | .11 |
| | 2,6-Dichlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .55 | .55 | .55 |
| | 2-Chlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | 4,6-Dinitro-o-cresol | 3 | 9 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 4-Chloro-3-methylphenol | 3 | 9 | NO | 0 | 0 | 0 | .93 | .93 | .93 |
| | 4-Nitrophenol | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorophenol | 3 | 9 | NO | 0 | 0 | 0 | .85 | .85 | .85 |
| | Phenol | 3 | 9 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | m-Cresol | 3 | 9 | NO | 0 | 0 | 0 | .88 | .88 | .88 |

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RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-9 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0100 STREAM: #4 POND DISCHARGE
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 20 | o-Cresol | 3 | 9 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | p-Cresol | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 2 | 9 | IH | 11 | 11 | 11 | .90 | 910.00 | 101.90 |
| | 1,2,3,5-Tetrachlorobenzene | 2 | 9 | IH | 11 | 11 | 11 | .50 | 540.00 | 60.40 |
| | 1,2,3-Trichlorobenzene | 2 | 9 | IH | 11 | 11 | 11 | .90 | 860.00 | 96.40 |
| | 1,2,4,5-Tetrachlorobenzene | 2 | 9 | IH | 11 | 11 | 11 | .50 | 530.00 | 59.30 |
| | 1,2,4-Trichlorobenzene | 2 | 9 | IH | 11 | 11 | 11 | .60 | 610.00 | 68.30 |
| | 2,4,5-Trichlorotoluene | 2 | 9 | IH | 11 | 11 | 11 | .30 | 270.00 | 30.30 |
| | Hexachlorobenzene | 2 | 9 | IH | 11 | 11 | 11 | .30 | 300.00 | 33.60 |
| | Hexachlorobutadiene | 2 | 9 | IH | 11 | 11 | 11 | .20 | 250.00 | 28.00 |
| | Hexachlorocyclopentadiene | 2 | 9 | IH | 11 | 11 | 11 | .50 | 470.00 | 52.70 |
| | Hexachloroethane | 2 | 9 | IH | 11 | 11 | 11 | .20 | 170.00 | 19.10 |
| | Octachlorostyrene | 2 | 9 | IH | 11 | 11 | 11 | .30 | 260.00 | 29.20 |
| | Pentachlorobenzene | 2 | 9 | IH | 11 | 11 | 11 | .20 | 210.00 | 23.50 |
| 24 | 2,3,7,8 TCDD | 3 | 1 | NO | 0 | 0 | 0 | .55 | .55 | .55 |
| | Octachlorodibenzo-p-dioxin | 3 | 1 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Octachlorodibenzofuran | 3 | 1 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | Total H6CDD | 3 | 1 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | Total H6CDF | 3 | 1 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| | Total H7CDD | 3 | 1 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Total H7CDF | 3 | 1 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Total PCDD | 3 | 1 | NO | 0 | 0 | 0 | .95 | .95 | .95 |
| | Total PCDF | 3 | 1 | NO | 0 | 0 | 0 | .87 | .87 | .87 |
| | Total TCDD | 3 | 1 | NO | 0 | 0 | 0 | .55 | .55 | .55 |
| | Total TCDF | 3 | 1 | NO | 0 | 0 | 0 | .53 | .53 | .53 |
| 25 | Oil and Grease | 1 | 267 | FL | 62 | 5 | 0 | 1.00 | 7.20 | 1.25 |
| 26 | Abietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .74 | .74 | .74 |
| | Chlorodehydroabietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | Dehydroabietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .90 | .90 | .90 |
| | Isopimaric Acid | 3 | 3 | NO | 0 | 0 | 0 | .66 | .66 | .66 |
| | Levopimaric Acid | 3 | 3 | NO | 0 | 0 | 0 | .82 | .82 | .82 |
| | Neoabietic Acid | 3 | 3 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | Oleic Acid | 3 | 3 | NO | 0 | 0 | 0 | .88 | .88 | .88 |
| | Pimaric Acid | 3 | 3 | NO | 0 | 0 | 0 | .54 | .54 | .54 |
| 27 | PCBT | 3 | 1 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| IS1 | Iron | 1 | 34 | FH | 94 | 94 | 91 | .50 | 47.00 | 18.65 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
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GROUP 3 = PARAMETERS NOT DETECTED ABOVE RMDL
TNS = NUMBER OF VALID SAMPLES
%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-10
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0400 STREAM: BLOWDOWN TREATMENT PLANT
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 2 | Cyanide Total | 1 | 105 | FH | 98 | 98 | 98 | .40 | 55.80 | 22.80 |
| 3 | Hydrogen Ion (pH) | 1 | 105 | FH | 100 | 100 | 100 | .00 | .00 | .00 |
| 4a | Ammonia plus Ammonium | 2 | 105 | IL | 7 | 1 | 0 | .10 | 2.24 | .34 |
| 6 | Total Phosphorus | 1 | 34 | FL | 59 | 32 | 9 | .80 | 10.40 | 2.18 |
| 8 | Total Suspended Solids | 2 | 105 | IL | 6 | 1 | 0 | .94 | 2.00 | .97 |
| | Volatile Suspended Solids | 3 | 104 | NO | 0 | 0 | 0 | .10 | .31 | .11 |
| 9 | Chromium | 2 | 104 | IL | 5 | 1 | 0 | .20 | 3.35 | .45 |
| | Lead | 2 | 103 | IM | 14 | 11 | 4 | .20 | 33.67 | 1.03 |
| | Zinc | 1 | 103 | FM | 96 | 85 | 42 | .90 | 33.00 | 6.30 |
| 14 | Phenolics (4AAP) | 1 | 104 | FL | 52 | 13 | 1 | .80 | 5.75 | 1.21 |
| 17 | Benzene | 2 | 117 | IM | 3 | 3 | 0 | .40 | 4.40 | .47 |
| | Ethylbenzene | 3 | 9 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Styrene | 3 | 9 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | Toluene | 3 | 9 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | m-Xylene and p-Xylene | 3 | 9 | NO | 0 | 0 | 0 | .45 | .45 | .45 |
| | o-Xylene | 3 | 9 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| 19 | 1-Chloronaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .32 | .32 | .32 |
| | 1-Methylnaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | 2,4-Dinitrotoluene | 3 | 9 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 3 | 9 | NO | 0 | 0 | 0 | .86 | .86 | .86 |
| | 2-Chloronaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 2-Methylnaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | 4-Bromophenyl Phenyl Ether | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 5-Nitro, Acenaphthene | 3 | 9 | NO | 0 | 0 | 0 | .42 | .42 | .42 |
| | Acenaphthene | 3 | 9 | NO | 0 | 0 | 0 | .54 | .54 | .54 |
| | Acenaphthylene | 3 | 9 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Anthracene | 3 | 9 | NO | 0 | 0 | 0 | .17 | .17 | .17 |
| | Benzo(a)anthracene | 3 | 9 | NO | 0 | 0 | 0 | .40 | .40 | .40 |
| | Benzo(a)pyrene | 3 | 116 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | Benzo(b)fluoranthene | 3 | 9 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Benzo(g,h,i)perylene | 3 | 9 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Benzo(k)fluoranthene | 3 | 9 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Benzobutylphthalate | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Bis(2-chloroethoxyl)methane | 3 | 9 | NO | 0 | 0 | 0 | .37 | .37 | .37 |
| | Bis(2-chloroethyl)ether | 3 | 9 | NO | 0 | 0 | 0 | .41 | .41 | .41 |
| | Bis(2-chloroisopropyl)ether | 3 | 9 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | Bis(2-ethylhexyl)phthalate | 3 | 9 | NO | 0 | 0 | 0 | .64 | .64 | .64 |
| | Camphene | 3 | 9 | NO | 0 | 0 | 0 | .29 | .29 | .29 |

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TNS = NUMBER OF VALID SAMPLES
%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-10 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0400 STREAM: BLOWDOWN TREATMENT PLANT
FOR THE PERIOD FROM 891101 TO 900731

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Chrysene | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Di-n-butyl Phthalate | 3 | 9 | NO | 0 | 0 | 0 | .29 | .29 | .29 |
| | Di-n-octyl Phthalate | 3 | 9 | NO | 0 | 0 | 0 | .40 | .45 | .41 |
| | Dibenz(a,h)anthracene | 3 | 9 | NO | 0 | 0 | 0 | .31 | .31 | .31 |
| | Diphenylamine | 3 | 9 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | Fluoranthene | 3 | 9 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Fluorene | 3 | 9 | NO | 0 | 0 | 0 | .18 | .18 | .18 |
| | Indeno(1,2,3-cd)pyrene | 3 | 9 | NO | 0 | 0 | 0 | .46 | .46 | .46 |
| | Indole | 3 | 9 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | N-Nitrosodi-n-propylamine | 3 | 9 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | N-Nitrosodiphenylamine | 3 | 9 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | Naphthalene | 3 | 116 | NO | 0 | 0 | 0 | .19 | .25 | .19 |
| | Perylene | 3 | 9 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Phenanthrene | 3 | 9 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| | Pyrene | 3 | 9 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| 25 | Oil and Grease | 1 | 104 | FL | 70 | 13 | 1 | 1.00 | 8.00 | 1.43 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
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%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-11
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

ATLAS SPECIALTY STEEL
CONTROL POINT: 0100 STREAM: 42 INCH SEWER
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 3 | Hydrogen Ion (pH) | 1 | 333 | FH | 100 | 100 | 100 | .00 | .00 | .00 |
| 4a | Ammonia plus Ammonium | 3 | 4 | NO | 0 | 0 | 0 | .10 | .84 | .33 |
| | Total Kjeldahl Nitrogen | 2 | 4 | IL | 25 | 0 | 0 | .36 | 1.68 | .79 |
| 4b | Nitrate+Nitrite | 1 | 4 | FH | 100 | 100 | 75 | 2.00 | 39.44 | 17.70 |
| 5a | DOC | 1 | 136 | FH | 100 | 100 | 55 | 3.42 | 12.10 | 5.47 |
| 5b | TOC | 3 | 4 | NO | 0 | 0 | 0 | .42 | .57 | .51 |
| 6 | Total Phosphorus | 3 | 44 | NO | 0 | 0 | 0 | .10 | .82 | .16 |
| 7 | Specific Conductance | 1 | 333 | FH | 100 | 100 | 100 | 57.80 | 114.00 | 72.05 |
| 8 | Total Suspended Solids | 1 | 332 | FL | 42 | 14 | 4 | .26 | 19.80 | 1.24 |
| | Volatile Suspended Solids | 2 | 332 | IL | 3 | 1 | 0 | .10 | 2.20 | .54 |
| 9 | Aluminum | 1 | 11 | FL | 100 | 45 | 9 | 1.00 | 5.33 | 2.07 |
| | Beryllium | 3 | 11 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Cadmium | 3 | 11 | NO | 0 | 0 | 0 | .00 | .00 | .00 |
| | Chromium | 1 | 11 | IL | 36 | 9 | 0 | .40 | 2.90 | 1.00 |
| | Cobalt | 3 | 11 | NO | 0 | 0 | 0 | .20 | .75 | .35 |
| | Copper | 1 | 11 | FM | 100 | 82 | 9 | 1.60 | 5.20 | 2.90 |
| | Lead | 3 | 11 | NO | 0 | 0 | 0 | .10 | .70 | .57 |
| | Molybdenum | 1 | 11 | FM | 91 | 82 | 9 | .85 | 5.50 | 3.10 |
| | Nickel | 1 | 11 | FH | 100 | 100 | 55 | 2.40 | 30.00 | 7.75 |
| | Silver | 3 | 11 | NO | 0 | 0 | 0 | .13 | .50 | .23 |
| | Thallium | 3 | 11 | NO | 0 | 0 | 0 | .33 | 1.00 | .83 |
| | Vanadium | 3 | 11 | NO | 0 | 0 | 0 | .30 | 1.00 | .50 |
| | Zinc | 1 | 12 | FH | 92 | 83 | 58 | .50 | 9.60 | 5.30 |
| 10 | Antimony | 3 | 4 | NO | 0 | 0 | 0 | .00 | .20 | .20 |
| | Arsenic | 3 | 4 | NO | 0 | 0 | 0 | .20 | .40 | .20 |
| | Selenium | 3 | 4 | NO | 0 | 0 | 0 | .00 | .20 | .20 |
| 11 | Chromium (hexavalent) | 3 | 1 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| 16 | 1,1,2,2-Tetrachloroethane | 3 | 10 | NO | 0 | 0 | 0 | .23 | .23 | .23 |
| | 1,1,2-Trichloroethane | 3 | 10 | NO | 10 | 10 | 0 | .83 | 2.33 | .98 |
| | 1,1-Dichloroethane | 3 | 10 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 1,1-Dichloroethylene | 3 | 10 | NO | 0 | 0 | 0 | .32 | .32 | .32 |
| | 1,2-Dichlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | .43 | .43 | .43 |
| | 1,2-Dichloroethane | 3 | 10 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 1,2-Dichloropropane | 3 | 10 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | 1,3-Dichlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | .64 | .64 | .64 |
| | 1,4-Dichlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | .53 | .53 | .53 |
| | Bromoform | 3 | 10 | NO | 0 | 0 | 0 | .30 | .30 | .30 |
| | Bromomethane | 3 | 10 | NO | 0 | 0 | 0 | .70 | .70 | .70 |
| | Carbon Tetrachloride | 3 | 10 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | Chlorobenzene | 3 | 10 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Chloroform | 3 | 10 | NO | 10 | 0 | 0 | 1.00 | 1.86 | 1.09 |
| | Chloromethane | 3 | 10 | NO | 0 | 0 | 0 | .89 | .89 | .89 |

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CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-11 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

ATLAS SPECIALTY STEEL
CONTROL POINT: 0100 STREAM: 42 INCH SEWER
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 16 | Cis-1,3-Dichloropropylene | 3 | 10 | NO | 0 | 0 | 0 | .79 | .79 | .79 |
| | Dibromochloromethane | 3 | 10 | NO | 0 | 0 | 0 | .91 | .91 | .91 |
| | Ethylene Dibromide | 3 | 10 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Methylene Chloride | 3 | 10 | NO | 10 | 10 | 10 | .77 | 18.54 | 2.55 |
| | Tetrachloroethylene | 3 | 10 | NO | 0 | 0 | 0 | .82 | .82 | .82 |
| | Trans-1,2-Dichloroethylene | 3 | 10 | NO | 0 | 0 | 0 | .79 | .79 | .79 |
| | Trans-1,3-Dichloropropylene | 3 | 10 | NO | 0 | 0 | 0 | .36 | .36 | .36 |
| | Trichloroethylene | 3 | 10 | NO | 0 | 0 | 0 | .47 | .53 | .48 |
| | Trichlorofluoromethane | 3 | 10 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Vinyl Chloride | 3 | 10 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| 17 | Benzene | 3 | 6 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Ethylbenzene | 3 | 6 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | Styrene | 3 | 6 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Toluene | 3 | 6 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | m-Xylene and p-Xylene | 3 | 6 | NO | 0 | 0 | 0 | .91 | .91 | .91 |
| | o-Xylene | 2 | 6 | IL | 17 | 0 | 0 | 1.00 | 1.24 | 1.04 |
| 19 | 1-Chloronaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .52 | .52 | .52 |
| | 1-Methylnaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .66 | .66 | .66 |
| | 2,4-Dinitrotoluene | 3 | 9 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 3 | 9 | NO | 0 | 0 | 0 | .43 | .43 | .43 |
| | 2-Chloronaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .61 | .61 | .61 |
| | 2-Methylnaphthalene | 3 | 9 | NO | 0 | 0 | 0 | .91 | .91 | .91 |
| | 4-Bromophenyl Phenyl Ether | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 3 | 9 | NO | 0 | 0 | 0 | .78 | .78 | .78 |
| | 5-Nitro, Acenaphthene | 3 | 9 | NO | 0 | 0 | 0 | .88 | .88 | .88 |
| | Acenaphthene | 3 | 9 | NO | 0 | 0 | 0 | .77 | .77 | .77 |
| | Acenaphthylene | 3 | 9 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Anthracene | 3 | 9 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Benzo(a)anthracene | 3 | 9 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | Benzo(a)pyrene | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzo(b)fluoranthene | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzo(g,h,i)perylene | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzo(k)fluoranthene | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzobutylphthalate | 2 | 9 | IL | 11 | 0 | 0 | 1.00 | 1.50 | 1.06 |
| | Bis(2-chloroethoxyl)methane | 3 | 9 | NO | 0 | 0 | 0 | .89 | .89 | .89 |
| | Bis(2-chloroethyl)ether | 3 | 9 | NO | 0 | 0 | 0 | .41 | .41 | .41 |
| | Bis(2-chloroisopropyl)ether | 3 | 9 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Bis(2-ethylhexyl)phthalate | 2 | 9 | IH | 22 | 11 | 11 | .59 | 16.73 | 2.46 |

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RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-11 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

ATLAS SPECIALTY STEEL
CONTROL POINT: 0100 STREAM: 42 INCH SEWER
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Camphene | 3 | 9 | NO | 0 | 0 | 0 | .77 | .77 | .77 |
| | Chrysene | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Di-n-butyl Phthalate | 3 | 9 | NO | 0 | 0 | 0 | .32 | .32 | .32 |
| | Di-n-octyl Phthalate | 3 | 1 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Dibenz(a,h)anthracene | 3 | 9 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Diphenylamine | 3 | 9 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Fluoranthene | 3 | 9 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| | Fluorene | 3 | 9 | NO | 0 | 0 | 0 | .71 | .71 | .71 |
| | Indeno(1,2,3-cd)pyrene | 3 | 9 | NO | 0 | 0 | 0 | .85 | .85 | .85 |
| | Indole | 3 | 9 | NO | 0 | 0 | 0 | .53 | .53 | .53 |
| | N-Nitrosodi-n-propylamine | 3 | 9 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | N-Nitrosodiphenylamine | 3 | 9 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Naphthalene | 3 | 9 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | Perylene | 3 | 9 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | Phenanthrene | 3 | 9 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| | Pyrene | 3 | 9 | NO | 0 | 0 | 0 | .75 | .75 | .75 |
| 20 | 2,3,4,5-Tetrachlorophenol | 3 | 6 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,4,6-Tetrachlorophenol | 3 | 6 | NO | 0 | 0 | 0 | .39 | .39 | .39 |
| | 2,3,4-Trichlorophenol | 3 | 6 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,5,6-Tetrachlorophenol | 3 | 6 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | 2,3,5-Trichlorophenol | 3 | 6 | NO | 0 | 0 | 0 | .85 | .85 | .85 |
| | 2,4,5-Trichlorophenol | 3 | 6 | NO | 0 | 0 | 0 | .77 | .77 | .77 |
| | 2,4,6-Trichlorophenol | 3 | 6 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| | 2,4-Dichlorophenol | 3 | 6 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,4-Dimethylphenol | 3 | 6 | NO | 0 | 0 | 0 | .59 | .59 | .59 |
| | 2,4-Dinitrophenol | 3 | 6 | NO | 0 | 0 | 0 | .43 | .43 | .43 |
| | 2,6-Dichlorophenol | 3 | 6 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2-Chlorophenol | 3 | 6 | NO | 0 | 0 | 0 | .49 | .49 | .49 |
| | 4,6-Dinitro-o-cresol | 3 | 6 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | 4-Chloro-3-methylphenol | 3 | 6 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | 4-Nitrophenol | 3 | 6 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorophenol | 3 | 6 | NO | 0 | 0 | 0 | .38 | .38 | .38 |
| | Phenol | 3 | 6 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | m-Cresol | 3 | 6 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | o-Cresol | 3 | 6 | NO | 0 | 0 | 0 | .62 | .62 | .62 |
| | p-Cresol | 3 | 6 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 3 | 8 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,3,5-Tetrachlorobenzene | 2 | 8 | IL | 13 | 0 | 0 | 1.00 | 1.80 | 1.10 |

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CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
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APPENDIX V

TABLE V-11 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

ATLAS SPECIALTY STEEL
CONTROL POINT: 0100 STREAM: 42 INCH SEWER
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 23 | 1,2,3-Trichlorobenzene | 3 | 8 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,4,5-Tetrachlorobenzene | 2 | 8 | IL | 13 | 0 | 0 | 1.00 | 1.80 | 1.10 |
| | 1,2,4-Trichlorobenzene | 2 | 8 | IH | 25 | 13 | 13 | 1.00 | 7.20 | 1.80 |
| | 2,4,5-Trichlorotoluene | 3 | 8 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachlorobenzene | 3 | 8 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachlorobutadiene | 3 | 8 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachlorocyclopentadiene | 3 | 8 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachloroethane | 3 | 8 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Octachlorostyrene | 3 | 8 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorobenzene | 3 | 8 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| 24 | 2,3,7,8 TCDD | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Octachlorodibenzo-p-dioxin | 2 | 2 | FL | 50 | 50 | 50 | 1.00 | 24.00 | 12.50 |
| | Octachlorodibenzofuran | 2 | 2 | FL | 50 | 50 | 0 | 1.00 | 4.00 | 2.50 |
| | Total H6CDD | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Total H6CDF | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Total H7CDD | 3 | 2 | NO | 0 | 0 | 0 | .97 | .97 | .97 |
| | Total H7CDF | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Total PCDD | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Total PCDF | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Total TCDD | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Total TCDF | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| 25 | Oil and Grease | 1 | 329 | FL | 70 | 44 | 12 | 1.00 | 42.80 | 2.76 |
| 27 | PCBT | 3 | 1 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| IS1 | Iron | 1 | 10 | FH | 100 | 90 | 80 | 1.90 | 42.00 | 13.50 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
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GROUP 3 = PARAMETERS NOT DETECTED ABOVE RMDL
TNS = NUMBER OF VALID SAMPLES
%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-12
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

IVACO ROLLING MILLS
CONTROL POINT: 0200 STREAM: EAST DISCHARGE (WHEN COOLING WATER)
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 3 | Hydrogen Ion (pH) | 1 | 12 | FH | 100 | 100 | 100 | .00 | .00 | .00 |
| 4a | Ammonia plus Ammonium | 1 | 4 | FL | 75 | 0 | 0 | .92 | 1.68 | 1.19 |
| | Total Kjeldahl Nitrogen | 1 | 4 | FL | 100 | 50 | 0 | 1.54 | 2.48 | 2.03 |
| 4b | Nitrate+Nitrite | 1 | 4 | FM | 75 | 75 | 0 | .10 | 3.68 | 2.06 |
| 5a | DOC | 1 | 12 | FH | 100 | 100 | 100 | 14.60 | 33.00 | 22.55 |
| 5b | TOC | 1 | 4 | FL | 100 | 50 | 0 | 1.62 | 2.38 | 1.99 |
| 6 | Total Phosphorus | 1 | 12 | FH | 100 | 92 | 75 | 1.20 | 15.40 | 7.33 |
| 7 | Specific Conductance | 1 | 3 | FH | 100 | 100 | 100 | 326.60 | 690.00 | 470.87 |
| 8 | Total Suspended Solids | 1 | 12 | FM | 92 | 75 | 42 | .80 | 18.80 | 5.45 |
| | Volatile Suspended Solids | 1 | 12 | FL | 42 | 0 | 0 | .39 | 1.80 | .75 |
| 9 | Aluminum | 1 | 4 | FH | 100 | 100 | 100 | 10.67 | 54.00 | 30.43 |
| | Beryllium | 3 | 4 | NO | 0 | 0 | 0 | .20 | .50 | .30 |
| | Cadmium | 3 | 4 | NO | 0 | 0 | 0 | .00 | .50 | .50 |
| | Chromium | 1 | 12 | FL | 42 | 0 | 0 | .15 | 1.65 | .80 |
| | Cobalt | 3 | 4 | NO | 0 | 0 | 0 | .20 | .45 | .25 |
| | Copper | 1 | 4 | FM | 100 | 100 | 0 | 2.00 | 3.80 | 2.80 |
| | Lead | 3 | 12 | NO | 8 | 0 | 0 | .10 | 1.20 | .33 |
| | Molybdenum | 2 | 4 | FL | 50 | 0 | 0 | .50 | 1.75 | 1.05 |
| | Nickel | 3 | 4 | NO | 0 | 0 | 0 | .15 | .30 | .25 |
| | Silver | 3 | 4 | NO | 0 | 0 | 0 | .10 | .13 | .13 |
| | Thallium | 3 | 4 | NO | 0 | 0 | 0 | .37 | .90 | .63 |
| | Vanadium | 2 | 4 | IL | 25 | 0 | 0 | .30 | 1.40 | .70 |
| | Zinc | 1 | 12 | FH | 100 | 100 | 100 | 23.00 | 87.00 | 55.80 |
| 10 | Antimony | 3 | 4 | NO | 0 | 0 | 0 | .20 | .80 | .40 |
| | Arsenic | 2 | 4 | IM | 25 | 25 | 0 | .20 | 2.00 | .80 |
| | Selenium | 3 | 4 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| 11 | Chromium (hexavalent) | 1 | 3 | FH | 100 | 100 | 67 | 2.00 | 6.00 | 4.50 |
| 16 | 1,1,2,2-Tetrachloroethane | 3 | 5 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 1,1,2-Trichloroethane | 3 | 5 | NO | 0 | 0 | 0 | .35 | 1.00 | .87 |
| | 1,1-Dichloroethane | 3 | 5 | NO | 0 | 0 | 0 | .25 | .63 | .55 |
| | 1,1-Dichloroethylene | 2 | 5 | IL | 20 | 0 | 0 | .14 | 1.25 | .38 |
| | 1,2-Dichlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .17 | .29 | .26 |
| | 1,2-Dichloroethane | 2 | 5 | IL | 20 | 0 | 0 | .50 | 1.02 | .66 |
| | 1,2-Dichloropropane | 3 | 5 | NO | 0 | 0 | 0 | .22 | .56 | .49 |
| | 1,3-Dichlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .21 | .27 | .26 |
| | 1,4-Dichlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .12 | .13 | .12 |
| | Bromoform | 3 | 5 | NO | 0 | 0 | 0 | .10 | .13 | .11 |
| | Bromomethane | 3 | 5 | NO | 0 | 0 | 0 | .10 | .65 | .40 |
| | Carbon Tetrachloride | 3 | 5 | NO | 0 | 0 | 0 | .23 | .72 | .33 |
| | Chlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .37 | .86 | .76 |
| | Chloroform | 1 | 5 | FM | 80 | 60 | 40 | .57 | 10.14 | 5.09 |
| | Chloromethane | 3 | 5 | NO | 0 | 0 | 0 | .18 | .62 | .45 |
| | Cis-1,3-Dichloropropylene | 3 | 5 | NO | 0 | 0 | 0 | .19 | .50 | .44 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
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TNS = NUMBER OF VALID SAMPLES
%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-12 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

IVACO ROLLING MILLS
CONTROL POINT: 0200 STREAM: EAST DISCHARGE (WHEN COOLING WATER)
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 16 | Dibromochloromethane | 3 | 5 | NO | 0 | 0 | 0 | .22 | .36 | .33 |
| | Ethylene Dibromide | 3 | 5 | NO | 0 | 0 | 0 | .18 | .60 | .52 |
| | Methylene Chloride | 1 | 5 | FM | 60 | 60 | 0 | .23 | 3.54 | 2.32 |
| | Tetrachloroethylene | 1 | 5 | FM | 100 | 100 | 0 | 2.09 | 3.00 | 2.33 |
| | Trans-1,2-Dichloroethylene | 2 | 5 | IL | 20 | 0 | 0 | .14 | 1.21 | .44 |
| | Trans-1,3-Dichloropropylene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .79 | .65 |
| | Trichloroethylene | 1 | 4 | FH | 100 | 100 | 100 | 17.89 | 50.53 | 37.50 |
| | Trichlorofluoromethane | 3 | 5 | NO | 0 | 0 | 0 | .26 | .30 | .29 |
| | Vinyl Chloride | 3 | 5 | NO | 0 | 0 | 0 | .19 | .72 | .62 |
| 17 | Benzene | 2 | 5 | IH | 20 | 20 | 20 | .32 | 14.80 | 3.22 |
| | Ethylbenzene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .40 | .16 |
| | Styrene | 3 | 5 | NO | 0 | 0 | 0 | .33 | .54 | .44 |
| | Toluene | 1 | 5 | FL | 80 | 20 | 0 | .30 | 2.04 | 1.26 |
| | m-Xylene and p-Xylene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .43 | .23 |
| | o-Xylene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .96 | .50 |
| 19 | 1-Chloronaphthalene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 1-Methylnaphthalene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .22 | .12 |
| | 2,4-Dinitrotoluene | 3 | 5 | NO | 0 | 0 | 0 | .10 | 1.00 | .77 |
| | 2,6-Dinitrotoluene | 3 | 5 | NO | 0 | 0 | 0 | .10 | 1.00 | .76 |
| | 2-Chloronaphthalene | 3 | 5 | NO | 0 | 0 | 0 | .13 | .55 | .47 |
| | 2-Methylnaphthalene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .32 | .14 |
| | 4-Bromophenyl Phenyl Ether | 3 | 5 | NO | 0 | 0 | 0 | .87 | 1.00 | .97 |
| | 4-Chlorophenyl Phenyl Ether | 3 | 5 | NO | 0 | 0 | 0 | .22 | .44 | .40 |
| | 5-Nitro, Acenaphthene | 3 | 5 | NO | 0 | 0 | 0 | .12 | .19 | .17 |
| | Acenaphthene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .36 | .31 |
| | Acenaphthylene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .34 | .29 |
| | Anthracene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .16 | .11 |
| | Benzo(a)anthracene | 3 | 5 | NO | 0 | 0 | 0 | .28 | .54 | .33 |
| | Benzo(a)pyrene | 3 | 5 | NO | 0 | 0 | 0 | .25 | 1.00 | .40 |
| | Benzo(b)fluoranthene | 3 | 5 | NO | 0 | 0 | 0 | .21 | .51 | .27 |
| | Benzo(g,h,i)perylene | 3 | 5 | NO | 0 | 0 | 0 | .41 | .99 | .53 |
| | Benzo(k)fluoranthene | 3 | 5 | NO | 0 | 0 | 0 | .33 | .83 | .43 |
| | Benzobutylphthalate | 2 | 5 | IM | 20 | 20 | 0 | .47 | 4.00 | 1.39 |
| | Bis(2-chloroethoxyl)methane | 3 | 5 | NO | 0 | 0 | 0 | .10 | .27 | .20 |
| | Bis(2-chloroethyl)ether | 3 | 5 | NO | 0 | 0 | 0 | .10 | .20 | .16 |
| | Bis(2-chloroisopropyl)ether | 3 | 5 | NO | 0 | 0 | 0 | .10 | .51 | .34 |
| | Bis(2-ethylhexyl)phthalate | 2 | 5 | IH | 40 | 40 | 40 | .14 | 18.64 | 7.88 |
| | Camphene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .10 | .10 |

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CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-12 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

IVACO ROLLING MILLS
CONTROL POINT: 0200 STREAM: EAST DISCHARGE (WHEN COOLING WATER)
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Chrysene | 3 | 5 | NO | 0 | 0 | 0 | .50 | .90 | .58 |
| | Di-n-butyl Phthalate | 3 | 5 | NO | 0 | 0 | 0 | .16 | .61 | .44 |
| | Di-n-octyl Phthalate | 3 | 2 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Dibenz(a,h)anthracene | 3 | 5 | NO | 0 | 0 | 0 | .32 | .98 | .46 |
| | Diphenylamine | 3 | 5 | NO | 0 | 0 | 0 | .10 | .27 | .20 |
| | Fluoranthene | 3 | 5 | NO | 0 | 0 | 0 | .33 | 1.00 | .86 |
| | Fluorene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .29 | .25 |
| | Indeno(1,2,3-cd)pyrene | 3 | 5 | NO | 0 | 0 | 0 | .51 | .88 | .58 |
| | Indole | 3 | 5 | NO | 0 | 0 | 0 | .11 | .48 | .36 |
| | N-Nitrosodi-n-propylamine | 3 | 5 | NO | 0 | 0 | 0 | .10 | .39 | .28 |
| | N-Nitrosodiphenylamine | 3 | 1 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Naphthalene | 3 | 5 | NO | 0 | 0 | 0 | .11 | .24 | .20 |
| | Perylene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .40 | .16 |
| | Phenanthrene | 1 | 5 | FL | 60 | 40 | 0 | .50 | 2.00 | 1.35 |
| | Pyrene | 3 | 5 | NO | 0 | 0 | 0 | .30 | .65 | .37 |
| 20 | 2,3,4,5-Tetrachlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 2,3,4,6-Tetrachlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 2,3,4-Trichlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 2,3,5,6-Tetrachlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .26 | .26 | .26 |
| | 2,3,5-Trichlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 2,4,5-Trichlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 2,4,6-Trichlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 2,4-Dichlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 2,4-Dimethylphenol | 3 | 5 | NO | 0 | 0 | 0 | .15 | .15 | .15 |
| | 2,4-Dinitrophenol | 3 | 5 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | 2,6-Dichlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .97 | .97 | .97 |
| | 2-Chlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .12 | .12 | .12 |
| | 4,6-Dinitro-o-cresol | 3 | 5 | NO | 0 | 0 | 0 | .26 | .26 | .26 |
| | 4-Chloro-3-methylphenol | 3 | 5 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | 4-Nitrophenol | 3 | 5 | NO | 0 | 0 | 0 | .27 | .27 | .27 |
| | Pentachlorophenol | 3 | 5 | NO | 0 | 0 | 0 | .10 | .14 | .13 |
| | Phenol | 3 | 5 | NO | 0 | 0 | 0 | .16 | .16 | .16 |
| | m-Cresol | 3 | 5 | NO | 0 | 0 | 0 | .13 | .13 | .13 |
| | o-Cresol | 3 | 5 | NO | 0 | 0 | 0 | .15 | .15 | .15 |
| | p-Cresol | 3 | 5 | NO | 0 | 0 | 0 | .13 | .13 | .13 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .30 | .30 |
| | 1,2,3,5-Tetrachlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | 1,2,3-Trichlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .20 | .30 | .20 |

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CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-12 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

IVACO ROLLING MILLS
CONTROL POINT: 0200 STREAM: EAST DISCHARGE (WHEN COOLING WATER)
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 23 | 1,2,4,5-Tetrachlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .20 | .20 |
| | 1,2,4-Trichlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | 2,4,5-Trichlorotoluene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .30 | .10 |
| | Hexachlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .30 | .40 | .30 |
| | Hexachlorobutadiene | 3 | 5 | NO | 0 | 0 | 0 | .20 | .30 | .30 |
| | Hexachlorocyclopentadiene | 3 | 5 | NO | 0 | 0 | 0 | .40 | .40 | .40 |
| | Hexachloroethane | 3 | 5 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Octachlorostyrene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .50 | .40 |
| | Pentachlorobenzene | 3 | 5 | NO | 0 | 0 | 0 | .10 | .20 | .20 |
| 25 | Oil and Grease | 1 | 11 | FH | 91 | 91 | 73 | .10 | 128.00 | 22.37 |
| IS1 | Iron | 1 | 12 | FH | 100 | 100 | 100 | 25.00 | 125.00 | 57.05 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
GROUP 2 = PARAMETERS NOT SELECTED BUT DETECTED ABOVE RMDL
GROUP 3 = PARAMETERS NOT DETECTED ABOVE RMDL
TNS = NUMBER OF VALID SAMPLES
%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-13
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

LASCO
CONTROL POINT: 0100 STREAM: SOUTH POND
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 3 | Hydrogen Ion (pH) | 1 | 365 | FH | 100 | 100 | 100 | .00 | .00 | .00 |
| 4a | Ammonia plus Ammonium | 1 | 4 | FL | 75 | 25 | 0 | .84 | 2.13 | 1.39 |
| | Total Kjeldahl Nitrogen | 2 | 4 | FL | 50 | 25 | 25 | 1.00 | 8.82 | 3.09 |
| 4b | Nitrate+Nitrite | 1 | 4 | FM | 75 | 75 | 25 | .50 | 12.84 | 4.90 |
| 5a | DOC | 1 | 53 | FH | 100 | 100 | 100 | 18.76 | 115.78 | 67.44 |
| 6 | Total Phosphorus | 1 | 53 | FM | 96 | 85 | 13 | .60 | 7.60 | 3.73 |
| 7 | Specific Conductance | 1 | 364 | FH | 100 | 100 | 100 | 48.00 | 142.20 | 85.63 |
| 8 | Total Suspended Solids | 1 | 365 | FL | 82 | 42 | 1 | 1.00 | 8.96 | 1.94 |
| | Volatile Suspended Solids | 3 | 365 | NO | 1 | 0 | 0 | .28 | 1.08 | .52 |
| 9 | Aluminum | 1 | 11 | FM | 73 | 73 | 36 | .67 | 7.00 | 3.30 |
| | Beryllium | 3 | 11 | NO | 9 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Cadmium | 1 | 11 | FL | 45 | 45 | 27 | .50 | 10.00 | 3.00 |
| | Chromium | 2 | 11 | IM | 27 | 18 | 0 | .50 | 2.50 | .95 |
| | Cobalt | 3 | 11 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Copper | 1 | 11 | FL | 64 | 45 | 18 | 1.00 | 51.00 | 8.10 |
| | Lead | 1 | 157 | FL | 58 | 30 | 6 | .33 | 24.67 | 1.73 |
| | Molybdenum | 1 | 11 | IL | 36 | 18 | 0 | .50 | 4.50 | 1.10 |
| | Nickel | 1 | 11 | FL | 55 | 27 | 0 | .50 | 3.00 | 1.20 |
| | Silver | 3 | 11 | NO | 9 | 9 | 0 | .33 | 2.33 | .53 |
| | Thallium | 3 | 11 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Vanadium | 2 | 11 | IM | 18 | 18 | 0 | .67 | 4.00 | 1.13 |
| | Zinc | 1 | 157 | FH | 94 | 87 | 62 | 1.00 | 709.00 | 33.70 |
| 10 | Antimony | 3 | 4 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Arsenic | 3 | 4 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Selenium | 3 | 4 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| 11 | Chromium (hexavalent) | 2 | 4 | FL | 50 | 25 | 0 | .30 | 4.20 | 1.60 |
| 16 | 1,1,2,2-Tetrachloroethane | 3 | 11 | NO | 0 | 0 | 0 | .35 | .35 | .35 |
| | 1,1,2-Trichloroethane | 3 | 11 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | 1,1-Dichloroethane | 3 | 11 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 1,1-Dichloroethylene | 3 | 11 | NO | 0 | 0 | 0 | .54 | .54 | .54 |
| | 1,2-Dichlorobenzene | 3 | 11 | NO | 0 | 0 | 0 | .36 | .36 | .36 |
| | 1,2-Dichloroethane | 3 | 11 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 1,2-Dichloropropane | 3 | 11 | NO | 0 | 0 | 0 | .56 | .56 | .56 |
| | 1,3-Dichlorobenzene | 3 | 11 | NO | 0 | 0 | 0 | .91 | .91 | .91 |
| | 1,4-Dichlorobenzene | 3 | 11 | NO | 0 | 0 | 0 | .59 | .59 | .59 |
| | Bromoform | 3 | 11 | NO | 0 | 0 | 0 | .54 | .54 | .54 |
| | Bromomethane | 3 | 11 | NO | 0 | 0 | 0 | .68 | .68 | .68 |
| | Carbon Tetrachloride | 3 | 11 | NO | 0 | 0 | 0 | .77 | .77 | .77 |
| | Chlorobenzene | 3 | 11 | NO | 0 | 0 | 0 | .71 | .71 | .71 |
| | Chloroform | 3 | 11 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | Chloromethane | 3 | 11 | NO | 0 | 0 | 0 | .11 | .11 | .11 |
| | Cis-1,3-Dichloropropylene | 3 | 11 | NO | 0 | 0 | 0 | .71 | .71 | .71 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
GROUP 2 = PARAMETERS NOT SELECTED BUT DETECTED ABOVE RMDL
GROUP 3 = PARAMETERS NOT DETECTED ABOVE RMDL
TNS = NUMBER OF VALID SAMPLES
%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-13 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

LASCO
CONTROL POINT: 0100 STREAM: SOUTH POND
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMOL | MINIMUM | MAXIMUM | AVERAGE |
| 16 | Dibromochloromethane | 3 | 11 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Ethylene Dibromide | 3 | 11 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Methylene Chloride | 3 | 11 | NO | 0 | 0 | 0 | .15 | .15 | .15 |
| | Tetrachloroethylene | 3 | 11 | NO | 0 | 0 | 0 | .45 | .45 | .45 |
| | Trans-1,2-Dichloroethylene | 3 | 11 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | Trans-1,3-Dichloropropylene | 3 | 11 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Trichloroethylene | 3 | 11 | NO | 0 | 0 | 0 | .26 | .26 | .26 |
| | Trichlorofluoromethane | 3 | 11 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Vinyl Chloride | 3 | 11 | NO | 0 | 0 | 0 | .13 | .13 | .13 |
| 17 | Benzene | 3 | 8 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | Ethylbenzene | 3 | 8 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Styrene | 3 | 8 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | Toluene | 3 | 8 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | m-Xylene and p-Xylene | 3 | 8 | NO | 0 | 0 | 0 | .73 | .73 | .73 |
| | o-Xylene | 3 | 8 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| 19 | 1-Chloronaphthalene | 3 | 11 | NO | 0 | 0 | 0 | .40 | .40 | .40 |
| | 1-Methylnaphthalene | 3 | 11 | NO | 0 | 0 | 0 | .22 | .22 | .22 |
| | 2,4-Dinitrotoluene | 3 | 11 | NO | 0 | 0 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 3 | 11 | NO | 0 | 0 | 0 | .71 | .71 | .71 |
| | 2-Chloronaphthalene | 3 | 11 | NO | 0 | 0 | 0 | .28 | .28 | .28 |
| | 2-Methylnaphthalene | 3 | 11 | NO | 0 | 0 | 0 | .41 | .41 | .41 |
| | 4-Bromophenyl Phenyl Ether | 3 | 11 | NO | 0 | 0 | 0 | .33 | 1.00 | .45 |
| | 4-Chlorophenyl Phenyl Ether | 3 | 11 | NO | 0 | 0 | 0 | .56 | .56 | .56 |
| | 5-Nitro, Acenaphthene | 3 | 11 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Acenaphthene | 3 | 11 | NO | 0 | 0 | 0 | .12 | .12 | .12 |
| | Acenaphthylene | 3 | 11 | NO | 0 | 0 | 0 | .11 | .11 | .11 |
| | Anthracene | 3 | 11 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Benzo(a)anthracene | 3 | 11 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Benzo(a)pyrene | 3 | 11 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Benzo(b)fluoranthene | 3 | 11 | NO | 0 | 0 | 0 | .13 | .13 | .13 |
| | Benzo(g,h,i)perylene | 3 | 11 | NO | 0 | 0 | 0 | .13 | .13 | .13 |
| | Benzo(k)fluoranthene | 3 | 11 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Benzobutylphthalate | 3 | 11 | NO | 0 | 0 | 0 | .17 | .17 | .17 |
| | Bis(2-chloroethoxyl)methane | 3 | 11 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | Bis(2-chloroethyl)ether | 3 | 11 | NO | 0 | 0 | 0 | .18 | .18 | .18 |
| | Bis(2-chloroisopropyl)ether | 3 | 11 | NO | 0 | 0 | 0 | .36 | .36 | .36 |
| | Bis(2-ethylhexyl)phthalate | 3 | 11 | NO | 0 | 0 | 0 | .91 | .91 | .91 |
| | Camphene | 3 | 11 | NO | 0 | 0 | 0 | .86 | .86 | .86 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
GROUP 2 = PARAMETERS NOT SELECTED BUT DETECTED ABOVE RMDL
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TNS = NUMBER OF VALID SAMPLES
%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-13 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

LASCO
CONTROL POINT: 0100 STREAM: SOUTH POND
FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Chrysene | 3 | 11 | NO | 0 | 0 | 0 | .13 | .13 | .13 |
| | Di-n-butyl Phthalate | 3 | 11 | NO | 0 | 0 | 0 | .21 | .21 | .21 |
| | Di-n-octyl Phthalate | 3 | 11 | NO | 0 | 0 | 0 | .40 | .75 | .72 |
| | Dibenz(a,h)anthracene | 3 | 11 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Diphenylamine | 3 | 11 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Fluoranthene | 3 | 11 | NO | 0 | 0 | 0 | .13 | .13 | .13 |
| | Fluorene | 3 | 11 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| | Indeno(1,2,3-cd)pyrene | 3 | 11 | NO | 0 | 0 | 0 | .38 | .38 | .38 |
| | Indole | 3 | 11 | NO | 0 | 0 | 0 | .79 | .79 | .79 |
| | N-Nitrosodi-n-propylamine | 3 | 11 | NO | 0 | 0 | 0 | .32 | .32 | .32 |
| | N-Nitrosodiphenylamine | 3 | 11 | NO | 0 | 0 | 0 | .14 | .14 | .14 |
| | Naphthalene | 3 | 11 | NO | 0 | 0 | 0 | .56 | .56 | .56 |
| | Perylene | 3 | 11 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | Phenanthrene | 3 | 11 | NO | 0 | 0 | 0 | .20 | .20 | .20 |
| | Pyrene | 3 | 11 | NO | 0 | 0 | 0 | .10 | .10 | .10 |
| 20 | 2,3,4,5-Tetrachlorophenol | 3 | 8 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,4,6-Tetrachlorophenol | 3 | 8 | NO | 0 | 0 | 0 | .71 | .71 | .71 |
| | 2,3,4-Trichlorophenol | 3 | 8 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | 2,3,5,6-Tetrachlorophenol | 3 | 8 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,5-Trichlorophenol | 3 | 8 | NO | 0 | 0 | 0 | .92 | .92 | .92 |
| | 2,4,5-Trichlorophenol | 3 | 8 | NO | 0 | 0 | 0 | .92 | .92 | .92 |
| | 2,4,6-Trichlorophenol | 3 | 8 | NO | 0 | 0 | 0 | .92 | .92 | .92 |
| | 2,4-Dichlorophenol | 3 | 8 | NO | 0 | 0 | 0 | .71 | .71 | .71 |
| | 2,4-Dimethylphenol | 3 | 8 | NO | 0 | 0 | 0 | .82 | .82 | .82 |
| | 2,4-Dinitrophenol | 3 | 8 | NO | 0 | 0 | 0 | .57 | .57 | .57 |
| | 2,6-Dichlorophenol | 3 | 8 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2-Chlorophenol | 3 | 8 | NO | 0 | 0 | 0 | .97 | .97 | .97 |
| | 4,6-Dinitro-o-cresol | 3 | 8 | NO | 0 | 0 | 0 | .83 | .83 | .83 |
| | 4-Chloro-3-methylphenol | 3 | 8 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | 4-Nitrophenol | 3 | 8 | NO | 0 | 0 | 0 | .86 | .86 | .86 |
| | Pentachlorophenol | 3 | 8 | NO | 0 | 0 | 0 | .92 | .92 | .92 |
| | Phenol | 3 | 8 | NO | 0 | 0 | 0 | .42 | .42 | .42 |
| | m-Cresol | 3 | 8 | NO | 0 | 0 | 0 | .71 | .71 | .71 |
| | o-Cresol | 3 | 8 | NO | 0 | 0 | 0 | .65 | .65 | .65 |
| | p-Cresol | 3 | 8 | NO | 0 | 0 | 0 | .69 | .69 | .69 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 3 | 11 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | 1,2,3,5-Tetrachlorobenzene | 3 | 11 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | 1,2,3-Trichlorobenzene | 3 | 11 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |

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%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX V

TABLE V-13 (continued)
EFFLUENT MONITORING DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS

LASCO
CONTROL POINT: 0100 STREAM: SOUTH POND
. FOR THE PERIOD FROM 891101 TO 901031

| | | | | | % FREQUENCY OF DETECTION | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ATG | PARAMETER | GROUP | TNS | CLASS | >RMDL | >2*RMDL | >5*RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 23 | 1,2,4,5-Tetrachlorobenzene | 3 | 11 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | 1,2,4-Trichlorobenzene | 3 | 11 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,4,5-Trichlorotoluene | 3 | 11 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | Hexachlorobenzene | 3 | 11 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | Hexachlorobutadiene | 3 | 11 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | Hexachlorocyclopentadiene | 3 | 11 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachloroethane | 3 | 11 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| | Octachlorostyrene | 3 | 11 | NO | 0 | 0 | 0 | .60 | .60 | .60 |
| | Pentachlorobenzene | 3 | 11 | NO | 0 | 0 | 0 | .80 | .80 | .80 |
| 24 | 2,3,7,8 TCDD | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Octachlorodibenzo-p-dioxin | 3 | 2 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Octachlorodibenzofuran | 3 | 2 | NO | 0 | 0 | 0 | .33 | .33 | .33 |
| | Total H6CDD | 3 | 2 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Total H6CDF | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Total H7CDD | 3 | 2 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Total H7CDF | 3 | 2 | NO | 0 | 0 | 0 | .33 | .33 | .33 |
| | Total PCDD | 3 | 2 | NO | 0 | 0 | 0 | .50 | .50 | .50 |
| | Total PCDF | 3 | 2 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| | Total TCDD | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| | Total TCDF | 3 | 2 | NO | 0 | 0 | 0 | .67 | .67 | .67 |
| 25 | Oil and Grease | 1 | 365 | FL | 74 | 39 | 7 | .30 | 22.10 | 2.26 |
| 27 | PCBT | 3 | 2 | NO | 0 | 0 | 0 | 1.00 | 1.00 | 1.00 |
| IS1 | Iron | 1 | 53 | FH | 100 | 100 | 100 | 12.00 | 158.00 | 53.35 |

GROUP 1 = PARAMETERS SELECTED BY SELECTION CRITERIA
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TNS = NUMBER OF VALID SAMPLES
%FREQ = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
CLASS = CLASSIFICATION CODE FOR FREQUENCY OF OCCURRENCE OF ANALYTE
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

# APPENDIX VI

## Field Duplicate Data

Concentration Difference Ratio

Absolute value of the difference between process effluent concentration and duplicate sample concentration divided by the Regulation Method Detection Limit (RMDL).

APPENDIX VI

TABLE VI-1
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

ALGOMA STEEL
CONTROL POINT: 0300 STREAM: 30 INCH SEWER OUTFALL
FOR THE PERIOD FROM 891101 TO 900731

| | | | DIFFERENCE RATIO | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 2 | Cyanide Total | 1 | 4.00 | 4.00 | 4.00 |
| 4a | Ammonia plus Ammonium | 1 | .00 | .00 | .00 |
| 5a | DOC | 1 | .16 | .16 | .16 |
| 6 | Total Phosphorus | 1 | .01 | .01 | .01 |
| 8 | Total Suspended Solids | 1 | .32 | .32 | .32 |
| | Volatile Suspended Solids | 1 | .00 | .00 | .00 |
| 9 | Chromium | 1 | .00 | .00 | .00 |
| | Lead | 1 | .00 | .00 | .00 |
| | Zinc | 1 | .20 | .20 | .20 |
| 14 | Phenolics (4AAP) | 1 | .50 | .50 | .50 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-2
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

ALGOMA STEEL
CONTROL POINT: 0700 STREAM: TERMINAL SETTLING BASINS
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | TNS | DIFFERENCE RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 2 | Cyanide Total | 9 | .00 | 6.00 | 1.40 |
| 4a | Ammonia plus Ammonium | 9 | .00 | 20.68 | 3.25 |
| 5a | DOC | 8 | .00 | 4.04 | .67 |
| 6 | Total Phosphorus | 8 | .00 | 1.60 | .26 |
| 8 | Total Suspended Solids | 38 | .00 | 1.64 | .25 |
| | Volatile Suspended Solids | 38 | .00 | .40 | .06 |
| 9 | Aluminum | 1 | .33 | .33 | .33 |
| | Beryllium | 1 | .00 | .00 | .00 |
| | Cadmium | 1 | .00 | .00 | .00 |
| | Chromium | 1 | .00 | .00 | .00 |
| | Cobalt | 1 | .00 | .00 | .00 |
| | Copper | 1 | .00 | .00 | .00 |
| | Lead | 1 | .00 | .00 | .00 |
| | Molybdenum | 1 | .00 | .00 | .00 |
| | Nickel | 1 | .00 | .00 | .00 |
| | Silver | 1 | .00 | .00 | .00 |
| | Thallium | 1 | .00 | .00 | .00 |
| | Vanadium | 2 | .00 | .00 | .00 |
| | Zinc | 1 | .20 | .20 | .20 |
| 10 | Antimony | 1 | .00 | .00 | .00 |
| | Arsenic | 1 | .00 | .00 | .00 |
| | Selenium | 1 | .20 | .20 | .20 |
| 12 | Mercury | 1 | .00 | .00 | .00 |
| 14 | Phenolics (4AAP) | 9 | .00 | 10.50 | 1.61 |
| 15 | Sulphide | 9 | .00 | .90 | .15 |
| 16 | 1,1,2,2-Tetrachloroethane | 1 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 1 | .00 | .00 | .00 |
| | 1,1-Dichloroethane | 1 | .00 | .00 | .00 |
| | 1,1-Dichloroethylene | 1 | .00 | .00 | .00 |
| | 1,2-Dichlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2-Dichloroethane | 1 | .00 | .00 | .00 |
| | 1,2-Dichloropropane | 1 | .00 | .00 | .00 |
| | 1,3-Dichlorobenzene | 1 | .00 | .00 | .00 |
| | 1,4-Dichlorobenzene | 1 | .00 | .00 | .00 |
| | Bromoform | 1 | .00 | .00 | .00 |
| | Bromomethane | 1 | .00 | .00 | .00 |
| | Carbon Tetrachloride | 1 | .00 | .00 | .00 |
| | Chlorobenzene | 1 | .00 | .00 | .00 |
| | Chloroform | 1 | .00 | .00 | .00 |
| | Chloromethane | 1 | .00 | .00 | .00 |
| | Cis-1,3-Dichloropropylene | 1 | .00 | .00 | .00 |
| | Dibromochloromethane | 1 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-2 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

ALGOMA STEEL
CONTROL POINT: 0700 STREAM: TERMINAL SETTLING BASINS
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 16 | Ethylene Dibromide | 1 | .00 | .00 | .00 |
| | Methylene Chloride | 1 | .00 | .00 | .00 |
| | Tetrachloroethylene | 1 | .00 | .00 | .00 |
| | Trans-1,2-Dichloroethylene | 1 | .00 | .00 | .00 |
| | Trans-1,3-Dichloropropylene | 1 | .00 | .00 | .00 |
| | Trichloroethylene | 1 | .00 | .00 | .00 |
| | Trichlorofluoromethane | 1 | .00 | .00 | .00 |
| | Vinyl Chloride | 1 | .00 | .00 | .00 |
| 17 | Benzene | 1 | .00 | .00 | .00 |
| | Ethylbenzene | 1 | .00 | .00 | .00 |
| | Styrene | 1 | .00 | .00 | .00 |
| | Toluene | 1 | .00 | .00 | .00 |
| | m-Xylene and p-Xylene | 1 | .00 | .00 | .00 |
| | o-Xylene | 1 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 2 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 2 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 2 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 2 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 2 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 2 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 2 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 2 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 2 | .00 | .00 | .00 |
| | Acenaphthene | 2 | .00 | .00 | .00 |
| | Acenaphthylene | 2 | .00 | .00 | .00 |
| | Anthracene | 2 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 2 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 2 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 2 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 2 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 2 | .00 | .00 | .00 |
| | Benzobutylphthalate | 2 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 2 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 2 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 2 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 2 | .00 | .77 | .39 |
| | Camphene | 2 | .00 | .00 | .00 |
| | Chrysene | 2 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 2 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 2 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-2 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

ALGOMA STEEL
CONTROL POINT: 0700 STREAM: TERMINAL SETTLING BASINS
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | TNS | DIFFERENCE RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 19 | Dibenz(a,h)anthracene | 2 | .00 | .00 | .00 |
| | Diphenyl Ether | 1 | .00 | .00 | .00 |
| | Diphenylamine | 2 | .00 | .00 | .00 |
| | Fluoranthene | 2 | .00 | .00 | .00 |
| | Fluorene | 2 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 2 | .00 | .00 | .00 |
| | Indole | 2 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 2 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 2 | .00 | .00 | .00 |
| | Naphthalene | 2 | .00 | .00 | .00 |
| | Perylene | 2 | .00 | .00 | .00 |
| | Phenanthrene | 2 | .00 | .00 | .00 |
| | Pyrene | 2 | .00 | .00 | .00 |
| 20 | 2,3,4,5-Tetrachlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,4,6-Tetrachlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,4-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,5,6-Tetrachlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,5-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4,5-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4,6-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4-Dichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4-Dimethylphenol | 1 | .00 | .00 | .00 |
| | 2,4-Dinitrophenol | 1 | .00 | .00 | .00 |
| | 2,6-Dichlorophenol | 1 | .00 | .00 | .00 |
| | 2-Chlorophenol | 1 | .00 | .00 | .00 |
| | 4,6-Dinitro-o-cresol | 1 | .00 | .00 | .00 |
| | 4-Chloro-3-methylphenol | 1 | .00 | .00 | .00 |
| | 4-Nitrophenol | 1 | .00 | .00 | .00 |
| | Pentachlorophenol | 1 | .00 | .00 | .00 |
| | Phenol | 1 | .00 | .00 | .00 |
| | m-Cresol | 1 | .00 | .00 | .00 |
| | o-Cresol | 1 | .00 | .00 | .00 |
| | p-Cresol | 1 | .00 | .00 | .00 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,3,5-Tetrachlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,3-Trichlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,4,5-Tetrachlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,4-Trichlorobenzene | 1 | .00 | .00 | .00 |
| | 2,4,5-Trichlorotoluene | 1 | .00 | .00 | .00 |
| | Hexachlorobenzene | 1 | .60 | .60 | .60 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-2 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

ALGOMA STEEL
CONTROL POINT: 0700 STREAM: TERMINAL SETTLING BASINS
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 23 | Hexachlorobutadiene | 1 | .00 | .00 | .00 |
| | Hexachlorocyclopentadiene | 1 | .00 | .00 | .00 |
| | Hexachloroethane | 1 | .00 | .00 | .00 |
| | Octachlorostyrene | 1 | .00 | .00 | .00 |
| | Pentachlorobenzene | 1 | .00 | .00 | .00 |
| 25 | Oil and Grease | 26 | .00 | 6.00 | 1.15 |
| IS1 | Iron | 7 | .50 | 3.50 | 1.25 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-3
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

ALGOMA STEEL
CONTROL POINT: 1400 STREAM: BY-PRODUCTS AREA
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 2 | Cyanide Total | 9 | 10.00 | 260.00 | 100.20 |
| 4a | Ammonia plus Ammonium | 9 | .00 | 1176.00 | 302.22 |
| 8 | Total Suspended Solids | 3 | .12 | .32 | .20 |
| | Volatile Suspended Solids | 3 | .02 | .08 | .05 |
| 14 | Phenolics (4AAP) | 9 | .00 | 400.00 | 164.44 |
| 17 | Benzene | 7 | .00 | 2660.00 | 472.83 |
| 19 | Benzo(a)pyrene | 7 | .83 | 14.83 | 5.09 |
| | Naphthalene | 7 | .00 | 51.25 | 8.81 |
| 25 | Oil and Grease | 8 | .40 | 6.20 | 1.46 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-4
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

DOFASCO INC.
CONTROL POINT: 0300 STREAM: BOILER HOUSE SEWER #1
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 2 | Cyanide Total | 1 | .40 | .40 | .40 |
| 4a | Ammonia plus Ammonium | 1 | .00 | .00 | .00 |
| 6 | Total Phosphorus | 1 | .05 | .05 | .05 |
| 8 | Total Suspended Solids | 1 | .00 | .00 | .00 |
| | Volatile Suspended Solids | 1 | .05 | .05 | .05 |
| 9 | Chromium | 1 | .00 | .00 | .00 |
| | Lead | 1 | 1.00 | 1.00 | 1.00 |
| | Zinc | 1 | 1.00 | 1.00 | 1.00 |
| 14 | Phenolics (4AAP) | 1 | 1.00 | 1.00 | 1.00 |
| 25 | Oil and Grease | 1 | .00 | .00 | .00 |
| IS1 | Iron | 1 | 1.50 | 1.50 | 1.50 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-5
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

DOFASCO INC.
CONTROL POINT: 0400 STREAM: WEST BAY FRONT SEWER
FOR THE PERIOD FROM 891101 TO 901031

| | | | DIFFERENCE RATIO | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 2 | Cyanide Total | 12 | .00 | 40.00 | 6.20 |
| 4a | Ammonia plus Ammonium | 12 | .00 | 1.60 | .43 |
| 5a | DOC | 9 | .00 | 2.20 | .47 |
| 6 | Total Phosphorus | 12 | .00 | .50 | .10 |
| 7 | Specific Conductance | 12 | .00 | 3.00 | .58 |
| 8 | Total Suspended Solids | 12 | .00 | 27.40 | 2.67 |
| | Volatile Suspended Solids | 12 | .00 | 1.35 | .19 |
| 9 | Aluminum | 2 | 1.33 | 4.67 | 3.00 |
| | Beryllium | 2 | .00 | .00 | .00 |
| | Cadmium | 2 | .00 | .00 | .00 |
| | Chromium | 12 | .00 | 26.00 | 2.25 |
| | Cobalt | 2 | .00 | .00 | .00 |
| | Copper | 2 | 1.00 | 1.00 | 1.00 |
| | Lead | 2 | .00 | .00 | .00 |
| | Molybdenum | 2 | .00 | .00 | .00 |
| | Nickel | 2 | .00 | 9.50 | 4.75 |
| | Silver | 2 | .00 | .00 | .00 |
| | Thallium | 2 | .00 | .00 | .00 |
| | Vanadium | 2 | .00 | .23 | .13 |
| | Zinc | 12 | .00 | 11.00 | 2.00 |
| 10 | Antimony | 2 | .00 | .00 | .00 |
| | Arsenic | 2 | .00 | .00 | .00 |
| | Selenium | 2 | .00 | .40 | .20 |
| 12 | Mercury | 2 | .00 | .00 | .00 |
| 14 | Phenolics (4AAP) | 11 | .00 | 20.00 | 4.50 |
| 16 | 1,1,2,2-Tetrachloroethane | 2 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 2 | .00 | .00 | .00 |
| | 1,1-Dichloroethane | 2 | .00 | .00 | .00 |
| | 1,1-Dichloroethylene | 2 | .00 | .00 | .00 |
| | 1,2-Dichlorobenzene | 2 | .00 | .00 | .00 |
| | 1,2-Dichloroethane | 2 | .00 | .00 | .00 |
| | 1,2-Dichloropropane | 2 | .00 | .00 | .00 |
| | 1,3-Dichlorobenzene | 2 | .00 | .00 | .00 |
| | 1,4-Dichlorobenzene | 2 | .00 | .00 | .00 |
| | Bromoform | 2 | .00 | .00 | .00 |
| | Bromomethane | 2 | .00 | .00 | .00 |
| | Carbon Tetrachloride | 2 | .00 | .00 | .00 |
| | Chlorobenzene | 2 | .00 | .00 | .00 |
| | Chloroform | 2 | .00 | .00 | .00 |
| | Chloromethane | 2 | .00 | .00 | .00 |
| | Cis-1,3-Dichloropropylene | 2 | .00 | .00 | .00 |
| | Dibromochloromethane | 2 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-5 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

DOFASCO INC.
CONTROL POINT: 0400 STREAM: WEST BAY FRONT SEWER
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 16 | Ethylene Dibromide | 2 | .00 | .00 | .00 |
| | Methylene Chloride | 2 | .00 | .00 | .00 |
| | Tetrachloroethylene | 2 | .00 | .00 | .00 |
| | Trans-1,2-Dichloroethylene | 2 | .00 | .00 | .00 |
| | Trans-1,3-Dichloropropylene | 2 | .00 | .00 | .00 |
| | Trichloroethylene | 2 | .00 | .00 | .00 |
| | Trichlorofluoromethane | 2 | .00 | .00 | .00 |
| | Vinyl Chloride | 2 | .00 | .00 | .00 |
| 17 | Benzene | 2 | .00 | .00 | .00 |
| | Ethylbenzene | 2 | .00 | .00 | .00 |
| | Styrene | 2 | .00 | .00 | .00 |
| | Toluene | 2 | .00 | .00 | .00 |
| | m-Xylene and p-Xylene | 2 | .00 | .00 | .00 |
| | o-Xylene | 2 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 1 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 1 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 1 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 1 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 1 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 1 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 1 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 1 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 1 | .00 | .00 | .00 |
| | Acenaphthene | 1 | .00 | .00 | .00 |
| | Acenaphthylene | 1 | .00 | .00 | .00 |
| | Anthracene | 1 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 1 | 1.00 | 1.00 | 1.00 |
| | Benzo(a)pyrene | 1 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 1 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 1 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 1 | .00 | .00 | .00 |
| | Benzobutylphthalate | 1 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 1 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 1 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 1 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 1 | .00 | .00 | .00 |
| | Camphene | 1 | .00 | .00 | .00 |
| | Chrysene | 1 | 1.00 | 1.00 | 1.00 |
| | Di-n-butyl Phthalate | 1 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 1 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-5 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

DOFASCO INC.
CONTROL POINT: 0400 STREAM: WEST BAY FRONT SEWER
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | TNS | DIFFERENCE RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 19 | Dibenz(a,h)anthracene | 1 | .00 | .00 | .00 |
| | Diphenylamine | 1 | .00 | .00 | .00 |
| | Fluoranthene | 1 | .75 | .75 | .75 |
| | Fluorene | 1 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 1 | .00 | .00 | .00 |
| | Indole | 1 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 1 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 1 | .00 | .00 | .00 |
| | Naphthalene | 1 | .00 | .00 | .00 |
| | Perylene | 1 | .00 | .00 | .00 |
| | Phenanthrene | 1 | .25 | .25 | .25 |
| | Pyrene | 1 | .50 | .50 | .50 |
| 20 | 2,3,4,5-Tetrachlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,4,6-Tetrachlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,4-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,5,6-Tetrachlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,5-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4,5-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4,6-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4-Dichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4-Dimethylphenol | 1 | .00 | .00 | .00 |
| | 2,4-Dinitrophenol | 1 | .00 | .00 | .00 |
| | 2,6-Dichlorophenol | 1 | .00 | .00 | .00 |
| | 2-Chlorophenol | 1 | .00 | .00 | .00 |
| | 4,6-Dinitro-o-cresol | 1 | .00 | .00 | .00 |
| | 4-Chloro-3-methylphenol | 1 | .00 | .00 | .00 |
| | 4-Nitrophenol | 1 | .00 | .00 | .00 |
| | Pentachlorophenol | 1 | .00 | .00 | .00 |
| | Phenol | 1 | .00 | .00 | .00 |
| | m-Cresol | 1 | .00 | .00 | .00 |
| | o-Cresol | 1 | .00 | .00 | .00 |
| | p-Cresol | 1 | .00 | .00 | .00 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 2 | .00 | .00 | .00 |
| | 1,2,3,5-Tetrachlorobenzene | 2 | .00 | .00 | .00 |
| | 1,2,3-Trichlorobenzene | 2 | .00 | .00 | .00 |
| | 1,2,4,5-Tetrachlorobenzene | 2 | .00 | .00 | .00 |
| | 1,2,4-Trichlorobenzene | 2 | .00 | 3.80 | 1.90 |
| | 2,4,5-Trichlorotoluene | 2 | .00 | .00 | .00 |
| | Hexachlorobenzene | 2 | .00 | .70 | .40 |
| | Hexachlorobutadiene | 2 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-5 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

DOFASCO INC.
CONTROL POINT: 0400 STREAM: WEST BAY FRONT SEWER
FOR THE PERIOD FROM 891101 TO 901031

| | | | DIFFERENCE RATIO | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 23 | Hexachlorocyclopentadiene | 2 | .00 | .00 | .00 |
| | Hexachloroethane | 2 | .00 | .00 | .00 |
| | Octachlorostyrene | 2 | .00 | .00 | .00 |
| | Pentachlorobenzene | 2 | .00 | .80 | .40 |
| 25 | Oil and Grease | 12 | .00 | .60 | .07 |
| IS1 | Iron | 12 | .00 | 150.00 | 32.90 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-6
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

DOFASCO INC.
CONTROL POINT: 0700 STREAM: COKE PLANT BIOLOGICAL PLANT DISCHARGE
FOR THE PERIOD FROM 891101 TO 901031

| | | | DIFFERENCE RATIO | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 2 | Cyanide Total | 12 | .00 | 800.00 | 416.60 |
| 4a | Ammonia plus Ammonium | 12 | .00 | 44.00 | 13.67 |
| 6 | Total Phosphorus | 12 | .00 | 1.30 | .63 |
| 8 | Total Suspended Solids | 12 | .40 | 10.00 | 2.00 |
| | Volatile Suspended Solids | 12 | .00 | 4.00 | .70 |
| 14 | Phenolics (4AAP) | 11 | .00 | 500.00 | 94.27 |
| 17 | Benzene | 11 | .00 | 20.00 | 2.73 |
| | Ethylbenzene | 2 | .00 | .00 | .00 |
| | Styrene | 2 | .00 | .20 | .10 |
| | Toluene | 2 | .00 | 2.00 | 1.00 |
| | m-Xylene and p-Xylene | 2 | .36 | 1.45 | .91 |
| | o-Xylene | 2 | .20 | .40 | .30 |
| 19 | 1-Chloronaphthalene | 2 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 2 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 2 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 2 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 2 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 2 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 2 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 2 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 2 | .00 | .00 | .00 |
| | Acenaphthene | 2 | .00 | .00 | .00 |
| | Acenaphthylene | 2 | 1.43 | 11.43 | 6.43 |
| | Anthracene | 2 | .00 | 5.33 | 2.67 |
| | Benzo(a)anthracene | 2 | 4.00 | 234.00 | 119.00 |
| | Benzo(a)pyrene | 11 | 3.33 | 145.00 | 29.85 |
| | Benzo(b)fluoranthene | 2 | .00 | 105.71 | 52.86 |
| | Benzo(g,h,i)perylene | 2 | .00 | 1.43 | .71 |
| | Benzo(k)fluoranthene | 2 | .00 | 105.71 | 52.86 |
| | Benzobutylphthalate | 2 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 2 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 2 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 2 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 2 | .00 | 4.82 | 2.41 |
| | Camphene | 2 | .00 | .00 | .00 |
| | Chrysene | 2 | 16.67 | 336.67 | 176.67 |
| | Di-n-butyl Phthalate | 2 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 2 | .00 | .00 | .00 |
| | Dibenz(a,h)anthracene | 2 | .00 | .00 | .00 |
| | Diphenylamine | 2 | .00 | .00 | .00 |
| | Fluoranthene | 2 | 12.50 | 495.00 | 253.75 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-6 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

DOFASCO INC.
CONTROL POINT: 0700 STREAM: COKE PLANT BIOLOGICAL PLANT DISCHARGE
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 19 | Fluorene | 2 | .00 | .12 | .06 |
| | Indeno(1,2,3-cd)pyrene | 2 | .00 | 7.23 | 3.62 |
| | Indole | 2 | .00 | 4.21 | 2.11 |
| | N-Nitrosodi-n-propylamine | 2 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 2 | .00 | .00 | .00 |
| | Naphthalene | 11 | .00 | 9.81 | 2.33 |
| | Perylene | 2 | .00 | .67 | .33 |
| | Phenanthrene | 2 | .50 | 34.25 | 17.38 |
| | Pyrene | 2 | 2.50 | 375.00 | 188.75 |
| 25 | Oil and Grease | 12 | .00 | 2.20 | .57 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-7
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

STELCO STEEL HILTON WORKS
CONTROL POINT: 0100 STREAM: WEST SIDE OPEN CUT
FOR THE PERIOD FROM 891101 TO 900731

| | | | DIFFERENCE RATIO | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 2 | Cyanide Total | 1 | .60 | .60 | .60 |
| 4a | Ammonia plus Ammonium | 1 | .00 | .00 | .00 |
| 5a | DOC | 1 | .40 | .40 | .40 |
| 6 | Total Phosphorus | 1 | .00 | .00 | .00 |
| 8 | Total Suspended Solids | 1 | .00 | .00 | .00 |
| | Volatile Suspended Solids | 1 | .00 | .00 | .00 |
| 9 | Chromium | 1 | .00 | .00 | .00 |
| | Lead | 1 | .00 | .00 | .00 |
| | Zinc | 1 | .00 | .00 | .00 |
| 14 | Phenolics (4AAP) | 1 | 10.50 | 10.50 | 10.50 |
| 25 | Oil and Grease | 1 | .50 | .50 | .50 |
| IS1 | Iron | 1 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-8
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

STELCO STEEL HILTON WORKS
CONTROL POINT: 0601 STREAM: EAST SIDE FILTER PLANT
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 2 | Cyanide Total | 9 | .00 | 2.40 | 1.20 |
| 4a | Ammonia plus Ammonium | 9 | .00 | .32 | .04 |
| 5a | DOC | 9 | .20 | 4.80 | 1.44 |
| 6 | Total Phosphorus | 9 | .00 | .44 | .06 |
| 7 | Specific Conductance | 9 | .00 | 12.00 | 2.67 |
| 8 | Total Suspended Solids | 9 | .00 | 7.00 | .81 |
| | Volatile Suspended Solids | 9 | .00 | .60 | .09 |
| 9 | Aluminum | 1 | 4.00 | 4.00 | 4.00 |
| | Beryllium | 1 | .00 | .00 | .00 |
| | Cadmium | 1 | .00 | .00 | .00 |
| | Chromium | 9 | .00 | .60 | .20 |
| | Cobalt | 1 | .00 | .00 | .00 |
| | Copper | 1 | .50 | .50 | .50 |
| | Lead | 9 | .00 | .27 | .07 |
| | Molybdenum | 1 | .00 | .00 | .00 |
| | Nickel | 1 | .00 | .00 | .00 |
| | Silver | 1 | .00 | .00 | .00 |
| | Thallium | 1 | .00 | .00 | .00 |
| | Vanadium | 1 | 1.50 | 1.50 | 1.50 |
| | Zinc | 9 | .00 | 57.80 | 7.20 |
| 10 | Antimony | 1 | .00 | .00 | .00 |
| | Arsenic | 1 | .00 | .00 | .00 |
| | Selenium | 1 | .00 | .00 | .00 |
| 12 | Mercury | 1 | .00 | .00 | .00 |
| 14 | Phenolics (4AAP) | 9 | .00 | 6.85 | 2.17 |
| 16 | 1,1,2,2-Tetrachloroethane | 1 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 1 | .00 | .00 | .00 |
| | 1,1-Dichloroethane | 1 | .00 | .00 | .00 |
| | 1,1-Dichloroethylene | 1 | .00 | .00 | .00 |
| | 1,2-Dichlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2-Dichloroethane | 1 | .00 | .00 | .00 |
| | 1,2-Dichloropropane | 1 | .00 | .00 | .00 |
| | 1,3-Dichlorobenzene | 1 | .00 | .00 | .00 |
| | 1,4-Dichlorobenzene | 1 | .00 | .00 | .00 |
| | Bromoform | 1 | .00 | .00 | .00 |
| | Bromomethane | 1 | .00 | .00 | .00 |
| | Carbon Tetrachloride | 1 | .00 | .00 | .00 |
| | Chlorobenzene | 1 | .00 | .00 | .00 |
| | Chloroform | 1 | .00 | .00 | .00 |
| | Chloromethane | 1 | .00 | .00 | .00 |
| | Cis-1,3-Dichloropropylene | 1 | .00 | .00 | .00 |
| | Dibromochloromethane | 1 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-8 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

STELCO STEEL HILTON WORKS
CONTROL POINT: 0601 STREAM: EAST SIDE FILTER PLANT
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 16 | Ethylene Dibromide | 1 | .00 | .00 | .00 |
| | Methylene Chloride | 1 | .00 | .00 | .00 |
| | Tetrachloroethylene | 1 | .00 | .00 | .00 |
| | Trans-1,2-Dichloroethylene | 1 | .00 | .00 | .00 |
| | Trans-1,3-Dichloropropylene | 1 | .00 | .00 | .00 |
| | Trichloroethylene | 1 | .00 | .00 | .00 |
| | Trichlorofluoromethane | 1 | .00 | .00 | .00 |
| | Vinyl Chloride | 1 | .00 | .00 | .00 |
| 17 | Benzene | 9 | .00 | 30.00 | 3.40 |
| | Ethylbenzene | 1 | .00 | .00 | .00 |
| | Styrene | 1 | .00 | .00 | .00 |
| | Toluene | 1 | .00 | .00 | .00 |
| | m-Xylene and p-Xylene | 1 | .00 | .00 | .00 |
| | o-Xylene | 1 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 1 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 1 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 1 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 1 | .57 | .57 | .57 |
| | 2-Chloronaphthalene | 1 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 1 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 1 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 1 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 1 | .00 | .00 | .00 |
| | Acenaphthene | 1 | .00 | .00 | .00 |
| | Acenaphthylene | 1 | .00 | .00 | .00 |
| | Anthracene | 1 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 1 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 9 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 1 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 1 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 1 | .00 | .00 | .00 |
| | Benzobutylphthalate | 1 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 1 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 1 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 1 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 1 | .00 | .00 | .00 |
| | Camphene | 1 | .00 | .00 | .00 |
| | Chrysene | 1 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 1 | .00 | .00 | .00 |
| | Dibenz(a,h)anthracene | 1 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-8 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

STELCO STEEL HILTON WORKS
CONTROL POINT: 0601 STREAM: EAST SIDE FILTER PLANT
FOR THE PERIOD FROM 891101 TO 900731

| | | | DIFFERENCE RATIO | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Diphenylamine | 1 | .00 | .00 | .00 |
| | Fluoranthene | 1 | .00 | .00 | .00 |
| | Fluorene | 1 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 1 | .00 | .00 | .00 |
| | Indole | 1 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 1 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 1 | .00 | .00 | .00 |
| | Naphthalene | 9 | .00 | .00 | .00 |
| | Perylene | 1 | .00 | .00 | .00 |
| | Phenanthrene | 1 | .00 | .00 | .00 |
| | Pyrene | 1 | .00 | .00 | .00 |
| 20 | 2,3,4,5-Tetrachlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,4,6-Tetrachlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,4-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,5,6-Tetrachlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,5-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4,5-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4,6-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4-Dichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4-Dimethylphenol | 1 | .00 | .00 | .00 |
| | 2,4-Dinitrophenol | 1 | .00 | .00 | .00 |
| | 2,6-Dichlorophenol | 1 | .00 | .00 | .00 |
| | 2-Chlorophenol | 1 | .00 | .00 | .00 |
| | 4,6-Dinitro-o-cresol | 1 | .00 | .00 | .00 |
| | 4-Chloro-3-methylphenol | 1 | .00 | .00 | .00 |
| | 4-Nitrophenol | 1 | .00 | .00 | .00 |
| | Pentachlorophenol | 1 | .00 | .00 | .00 |
| | Phenol | 1 | .00 | .00 | .00 |
| | m-Cresol | 1 | .00 | .00 | .00 |
| | o-Cresol | 1 | .00 | .00 | .00 |
| | p-Cresol | 1 | .00 | .00 | .00 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,3,5-Tetrachlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,3-Trichlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,4,5-Tetrachlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,4-Trichlorobenzene | 1 | .00 | .00 | .00 |
| | 2,4,5-Trichlorotoluene | 1 | .00 | .00 | .00 |
| | Hexachlorobenzene | 1 | .00 | .00 | .00 |
| | Hexachlorobutadiene | 1 | .00 | .00 | .00 |
| | Hexachlorocyclopentadiene | 1 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-8 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

STELCO STEEL HILTON WORKS
CONTROL POINT: 0601 STREAM: EAST SIDE FILTER PLANT
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 23 | Hexachloroethane | 1 | .00 | .00 | .00 |
| | Octachlorostyrene | 1 | .00 | .00 | .00 |
| | Pentachlorobenzene | 1 | .00 | .00 | .00 |
| 25 | Oil and Grease | 8 | .00 | .60 | .19 |
| IS1 | Iron | 9 | .00 | 45.00 | 16.15 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-9
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0100 STREAM: #4 POND DISCHARGE
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 2 | Cyanide Total | 9 | .00 | 5.20 | 1.20 |
| 4a | Ammonia plus Ammonium | 8 | .00 | .40 | .05 |
| 5a | DOC | 9 | .00 | 2.00 | .42 |
| 6 | Total Phosphorus | 9 | .00 | 1.00 | .22 |
| 7 | Specific Conductance | 9 | .00 | 2.00 | .22 |
| 8 | Total Suspended Solids | 4 | .00 | .06 | .03 |
| | Volatile Suspended Solids | 4 | .00 | .03 | .02 |
| 9 | Aluminum | 3 | .00 | 1.07 | .37 |
| | Beryllium | 3 | .00 | .00 | .00 |
| | Cadmium | 9 | .00 | 1.00 | .00 |
| | Chromium | 3 | .00 | .15 | .10 |
| | Cobalt | 3 | .00 | .00 | .00 |
| | Copper | 3 | .30 | 1.20 | .60 |
| | Lead | 3 | .00 | .00 | .00 |
| | Molybdenum | 3 | .00 | .25 | .10 |
| | Nickel | 3 | .00 | .25 | .10 |
| | Silver | 3 | .00 | .00 | .00 |
| | Thallium | 3 | .00 | .00 | .00 |
| | Vanadium | 3 | .00 | 5.23 | 2.00 |
| | Zinc | 3 | .90 | 3.00 | 2.00 |
| 10 | Antimony | 3 | .00 | .40 | .20 |
| | Arsenic | 3 | .00 | .20 | .00 |
| | Selenium | 3 | .20 | .80 | .40 |
| 12 | Mercury | 3 | .00 | 1.00 | .33 |
| 14 | Phenolics (4AAP) | 9 | .00 | .50 | .12 |
| 16 | 1,1,2,2-Tetrachloroethane | 1 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 1 | .00 | .00 | .00 |
| | 1,1-Dichloroethane | 1 | .00 | .00 | .00 |
| | 1,1-Dichloroethylene | 1 | .00 | .00 | .00 |
| | 1,2-Dichlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2-Dichloroethane | 1 | .00 | .00 | .00 |
| | 1,2-Dichloropropane | 1 | .00 | .00 | .00 |
| | 1,3-Dichlorobenzene | 1 | .00 | .00 | .00 |
| | 1,4-Dichlorobenzene | 1 | .00 | .00 | .00 |
| | Bromoform | 1 | .81 | .81 | .81 |
| | Bromomethane | 1 | .00 | .00 | .00 |
| | Carbon Tetrachloride | 1 | .00 | .00 | .00 |
| | Chlorobenzene | 1 | .00 | .00 | .00 |
| | Chloroform | 1 | .43 | .43 | .43 |
| | Chloromethane | 1 | .00 | .00 | .00 |
| | Cis-1,3-Dichloropropylene | 1 | .00 | .00 | .00 |
| | Dibromochloromethane | 1 | 2.00 | 2.00 | 2.00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-9 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0100 STREAM: #4 POND DISCHARGE
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | TNS | DIFFERENCE RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 16 | Ethylene Dibromide | 1 | .00 | .00 | .00 |
| | Methylene Chloride | 1 | .00 | .00 | .00 |
| | Tetrachloroethylene | 1 | .00 | .00 | .00 |
| | Trans-1,2-Dichloroethylene | 1 | .00 | .00 | .00 |
| | Trans-1,3-Dichloropropylene | 1 | .00 | .00 | .00 |
| | Trichloroethylene | 1 | .00 | .00 | .00 |
| | Trichlorofluoromethane | 1 | .00 | .00 | .00 |
| | Vinyl Chloride | 1 | .00 | .00 | .00 |
| 17 | Benzene | 1 | .00 | .00 | .00 |
| | Ethylbenzene | 1 | .00 | .00 | .00 |
| | Styrene | 1 | .00 | .00 | .00 |
| | Toluene | 1 | .00 | .00 | .00 |
| | m-Xylene and p-Xylene | 1 | .00 | .00 | .00 |
| | o-Xylene | 1 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 1 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 1 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 1 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 1 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 1 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 1 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 1 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 1 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 1 | .00 | .00 | .00 |
| | Acenaphthene | 1 | .00 | .00 | .00 |
| | Acenaphthylene | 1 | .00 | .00 | .00 |
| | Anthracene | 1 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 1 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 1 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 1 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 1 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 1 | .00 | .00 | .00 |
| | Benzobutylphthalate | 1 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 1 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 1 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 1 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 1 | .00 | .00 | .00 |
| | Camphene | 1 | .00 | .00 | .00 |
| | Chrysene | 1 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 1 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 1 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-9 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0100 STREAM: #4 POND DISCHARGE
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 19 | Dibenz(a,h)anthracene | 1 | .00 | .00 | .00 |
| | Diphenylamine | 1 | .00 | .00 | .00 |
| | Fluoranthene | 1 | .00 | .00 | .00 |
| | Fluorene | 1 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 1 | .00 | .00 | .00 |
| | Indole | 1 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 1 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 1 | .00 | .00 | .00 |
| | Naphthalene | 1 | .00 | .00 | .00 |
| | Perylene | 1 | .00 | .00 | .00 |
| | Phenanthrene | 1 | .00 | .00 | .00 |
| | Pyrene | 1 | .00 | .00 | .00 |
| 20 | 2,3,4,5-Tetrachlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,4,6-Tetrachlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,4-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,5,6-Tetrachlorophenol | 1 | .00 | .00 | .00 |
| | 2,3,5-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4,5-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4,6-Trichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4-Dichlorophenol | 1 | .00 | .00 | .00 |
| | 2,4-Dimethylphenol | 1 | .00 | .00 | .00 |
| | 2,4-Dinitrophenol | 1 | .00 | .00 | .00 |
| | 2,6-Dichlorophenol | 1 | .00 | .00 | .00 |
| | 2-Chlorophenol | 1 | .00 | .00 | .00 |
| | 4,6-Dinitro-o-cresol | 1 | .00 | .00 | .00 |
| | 4-Chloro-3-methylphenol | 1 | .00 | .00 | .00 |
| | 4-Nitrophenol | 1 | .00 | .00 | .00 |
| | Pentachlorophenol | 1 | .00 | .00 | .00 |
| | Phenol | 1 | .00 | .00 | .00 |
| | m-Cresol | 1 | .00 | .00 | .00 |
| | o-Cresol | 1 | .00 | .00 | .00 |
| | p-Cresol | 1 | .00 | .00 | .00 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,3,5-Tetrachlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,3-Trichlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,4,5-Tetrachlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,4-Trichlorobenzene | 1 | .00 | .00 | .00 |
| | 2,4,5-Trichlorotoluene | 1 | 2.70 | 2.70 | 2.70 |
| | Hexachlorobenzene | 1 | .20 | .20 | .20 |
| | Hexachlorobutadiene | 1 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-9 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0100 STREAM: #4 POND DISCHARGE
FOR THE PERIOD FROM 891101 TO 900731

| | | DIFFERENCE RATIO | | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 23 | Hexachlorocyclopentadiene | 1 | .00 | .00 | .00 |
| | Hexachloroethane | 1 | .00 | .00 | .00 |
| | Octachlorostyrene | 1 | .00 | .00 | .00 |
| | Pentachlorobenzene | 1 | .00 | .00 | .00 |
| 25 | Oil and Grease | 9 | .00 | 1.00 | .13 |
| IS1 | Iron | 2 | 21.30 | 23.50 | 22.40 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-10
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0400 STREAM: BLOWDOWN TREATMENT PLANT
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 2 | Cyanide Total | 8 | .20 | 15.00 | 3.80 |
| 4a | Ammonia plus Ammonium | 8 | .00 | .12 | .03 |
| 6 | Total Phosphorus | 8 | .00 | 1.10 | .28 |
| 8 | Total Suspended Solids | 4 | .00 | .48 | .12 |
| | Volatile Suspended Solids | 4 | .00 | .06 | .01 |
| 9 | Chromium | 8 | .00 | .20 | .10 |
| | Lead | 8 | .00 | .83 | .10 |
| | Zinc | 8 | .00 | 2.70 | 1.00 |
| 14 | Phenolics (4AAP) | 8 | .00 | .40 | .07 |
| 17 | Benzene | 9 | .00 | 1.20 | .13 |
| | Ethylbenzene | 1 | .00 | .00 | .00 |
| | Styrene | 1 | .00 | .00 | .00 |
| | Toluene | 1 | .00 | .00 | .00 |
| | m-Xylene and p-Xylene | 1 | .00 | .00 | .00 |
| | o-Xylene | 1 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 1 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 1 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 1 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 1 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 1 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 1 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 1 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 1 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 1 | .00 | .00 | .00 |
| | Acenaphthene | 1 | .00 | .00 | .00 |
| | Acenaphthylene | 1 | .00 | .00 | .00 |
| | Anthracene | 1 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 1 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 9 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 1 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 1 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 1 | .00 | .00 | .00 |
| | Benzobutylphthalate | 1 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 1 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 1 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 1 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 1 | .00 | .00 | .00 |
| | Camphene | 1 | .00 | .00 | .00 |
| | Chrysene | 1 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 1 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 1 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-10 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0400 STREAM: BLOWDOWN TREATMENT PLANT
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 19 | Dibenz(a,h)anthracene | 1 | .00 | .00 | .00 |
| | Diphenylamine | 1 | .00 | .00 | .00 |
| | Fluoranthene | 1 | .00 | .00 | .00 |
| | Fluorene | 1 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 1 | .00 | .00 | .00 |
| | Indole | 1 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 1 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 1 | .00 | .00 | .00 |
| | Naphthalene | 9 | .00 | .06 | .01 |
| | Perylene | 1 | .00 | .00 | .00 |
| | Phenanthrene | 1 | .00 | .00 | .00 |
| | Pyrene | 1 | .00 | .00 | .00 |
| 25 | Oil and Grease | 8 | .00 | 2.00 | .40 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-11
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

ATLAS SPECIALTY STEEL
CONTROL POINT: 0100 STREAM: 42 INCH SEWER
FOR THE PERIOD FROM 891101 TO 901031

| | | DIFFERENCE RATIO | | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 5a | DOC | 10 | .00 | .44 | .21 |
| 5b | TOC | 1 | .02 | .02 | .02 |
| 6 | Total Phosphorus | 10 | .00 | .50 | .08 |
| 7 | Specific Conductance | 28 | .00 | 2.60 | .76 |
| 8 | Total Suspended Solids | 18 | .00 | .40 | .10 |
| | Volatile Suspended Solids | 18 | .00 | .10 | .01 |
| 9 | Aluminum | 2 | .33 | .40 | .37 |
| | Beryllium | 2 | .00 | .00 | .00 |
| | Cadmium | 2 | .00 | .50 | .00 |
| | Chromium | 2 | .05 | .70 | .40 |
| | Cobalt | 2 | .00 | .10 | .05 |
| | Copper | 2 | .80 | .80 | .80 |
| | Lead | 2 | .00 | .00 | .00 |
| | Molybdenum | 2 | .10 | .30 | .20 |
| | Nickel | 2 | .00 | .20 | .10 |
| | Silver | 2 | .00 | .00 | .00 |
| | Thallium | 2 | .00 | .00 | .00 |
| | Vanadium | 2 | .00 | .00 | .00 |
| | Zinc | 2 | .20 | .30 | .30 |
| 16 | 1,1,2,2-Tetrachloroethane | 3 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 3 | .00 | .17 | .06 |
| | 1,1-Dichloroethane | 3 | .00 | .00 | .00 |
| | 1,1-Dichloroethylene | 3 | .00 | .00 | .00 |
| | 1,2-Dichlorobenzene | 3 | .00 | .00 | .00 |
| | 1,2-Dichloroethane | 3 | .00 | .00 | .00 |
| | 1,2-Dichloropropane | 3 | .00 | .00 | .00 |
| | 1,3-Dichlorobenzene | 3 | .00 | .00 | .00 |
| | 1,4-Dichlorobenzene | 3 | .00 | .00 | .00 |
| | Bromoform | 3 | .00 | .00 | .00 |
| | Bromomethane | 3 | .00 | .00 | .00 |
| | Carbon Tetrachloride | 3 | .00 | .00 | .00 |
| | Chlorobenzene | 3 | .00 | .00 | .00 |
| | Chloroform | 3 | .00 | .29 | .10 |
| | Chloromethane | 3 | .00 | .00 | .00 |
| | Cis-1,3-Dichloropropylene | 3 | .00 | .00 | .00 |
| | Dibromochloromethane | 3 | .00 | .00 | .00 |
| | Ethylene Dibromide | 3 | .00 | .00 | .00 |
| | Methylene Chloride | 3 | .00 | .00 | .00 |
| | Tetrachloroethylene | 3 | .00 | .00 | .00 |
| | Trans-1,2-Dichloroethylene | 3 | .00 | .00 | .00 |
| | Trans-1,3-Dichloropropylene | 3 | .00 | .00 | .00 |
| | Trichloroethylene | 3 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-11 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

ATLAS SPECIALTY STEEL
CONTROL POINT: 0100 STREAM: 42 INCH SEWER
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 16 | Trichlorofluoromethane | 3 | .00 | .00 | .00 |
| | Vinyl Chloride | 3 | .00 | .00 | .00 |
| 17 | Benzene | 1 | .00 | .00 | .00 |
| | Ethylbenzene | 1 | .00 | .00 | .00 |
| | Styrene | 1 | .00 | .00 | .00 |
| | Toluene | 1 | .00 | .00 | .00 |
| | m-Xylene and p-Xylene | 1 | .00 | .00 | .00 |
| | o-Xylene | 1 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 2 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 2 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 2 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 2 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 2 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 2 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 2 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 2 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 2 | .00 | .00 | .00 |
| | Acenaphthene | 2 | .00 | .00 | .00 |
| | Acenaphthylene | 2 | .00 | .00 | .00 |
| | Anthracene | 2 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 2 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 2 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 2 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 2 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 2 | .00 | .00 | .00 |
| | Benzobutylphthalate | 2 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 2 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 2 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 2 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 2 | .00 | .42 | .21 |
| | Camphene | 2 | .00 | .00 | .00 |
| | Chrysene | 2 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 2 | .00 | .00 | .00 |
| | Dibenz(a,h)anthracene | 2 | .00 | .00 | .00 |
| | Diphenylamine | 2 | .00 | .00 | .00 |
| | Fluoranthene | 2 | .00 | .00 | .00 |
| | Fluorene | 2 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 2 | .00 | .00 | .00 |
| | Indole | 2 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 2 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-11 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

ATLAS SPECIALTY STEEL
CONTROL POINT: 0100 STREAM: 42 INCH SEWER
FOR THE PERIOD FROM 891101 TO 901031

| | | DIFFERENCE RATIO | | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 19 | N-Nitrosodiphenylamine | 2 | .00 | .00 | .00 |
| | Naphthalene | 2 | .00 | .00 | .00 |
| | Perylene | 2 | .00 | .00 | .00 |
| | Phenanthrene | 2 | .00 | .00 | .00 |
| | Pyrene | 2 | .00 | .00 | .00 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 2 | .00 | .00 | .00 |
| | 1,2,3,5-Tetrachlorobenzene | 2 | .00 | .00 | .00 |
| | 1,2,3-Trichlorobenzene | 2 | .00 | .00 | .00 |
| | 1,2,4,5-Tetrachlorobenzene | 2 | .00 | .00 | .00 |
| | 1,2,4-Trichlorobenzene | 2 | .00 | .00 | .00 |
| | 2,4,5-Trichlorotoluene | 2 | .00 | .00 | .00 |
| | Hexachlorobenzene | 2 | .00 | .00 | .00 |
| | Hexachlorobutadiene | 2 | .00 | .00 | .00 |
| | Hexachlorocyclopentadiene | 2 | .00 | .00 | .00 |
| | Hexachloroethane | 2 | .00 | .00 | .00 |
| | Octachlorostyrene | 2 | .00 | .00 | .00 |
| | Pentachlorobenzene | 2 | .00 | .00 | .00 |
| 25 | Oil and Grease | 31 | .00 | 9.20 | .79 |
| IS1 | Iron | 2 | 2.20 | 12.00 | 7.10 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-12
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

IVACO ROLLING MILLS
CONTROL POINT: 0200 STREAM: EAST DISCHARGE (WHEN COOLING WATER)
FOR THE PERIOD FROM 891101 TO 901031

| | | DIFFERENCE RATIO | | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 5a | DOC | 2 | .00 | .40 | .20 |
| 6 | Total Phosphorus | 2 | .10 | .40 | .25 |
| 7 | Specific Conductance | 1 | 24.00 | 24.00 | 24.00 |
| 8 | Total Suspended Solids | 2 | 1.60 | 3.60 | 2.60 |
| | Volatile Suspended Solids | 2 | .20 | 2.80 | 1.50 |
| 9 | Chromium | 2 | .10 | .10 | .10 |
| | Lead | 2 | .00 | .13 | .07 |
| | Zinc | 2 | 2.00 | 4.00 | 3.00 |
| 25 | Oil and Grease | 2 | 1.00 | 7.00 | 4.00 |
| IS1 | Iron | 2 | 6.50 | 25.00 | 15.75 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-13
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

LASCO
CONTROL POINT: 0100 STREAM: SOUTH POND
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 5a | DOC | 21 | .42 | 24.20 | 5.52 |
| 6 | Total Phosphorus | 15 | .00 | 1.30 | .48 |
| 7 | Specific Conductance | 28 | .00 | 19.00 | 2.21 |
| 8 | Total Suspended Solids | 43 | .00 | 3.16 | .31 |
| | Volatile Suspended Solids | 42 | .00 | .26 | .02 |
| 9 | Aluminum | 2 | .00 | 1.33 | .67 |
| | Beryllium | 2 | .00 | .00 | .00 |
| | Cadmium | 2 | 4.50 | 4.50 | 4.50 |
| | Chromium | 2 | .00 | .05 | .00 |
| | Cobalt | 2 | .00 | .50 | .25 |
| | Copper | 2 | .80 | 1.00 | .90 |
| | Lead | 19 | .00 | 1.00 | .33 |
| | Molybdenum | 2 | .00 | .00 | .00 |
| | Nickel | 2 | .50 | .50 | .50 |
| | Silver | 2 | .00 | .00 | .00 |
| | Thallium | 2 | .00 | .00 | .00 |
| | Vanadium | 2 | .00 | .00 | .00 |
| | Zinc | 16 | .00 | 129.60 | 11.70 |
| 16 | 1,1,2,2-Tetrachloroethane | 3 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 3 | .00 | .00 | .00 |
| | 1,1-Dichloroethane | 3 | .00 | .00 | .00 |
| | 1,1-Dichloroethylene | 3 | .00 | .00 | .00 |
| | 1,2-Dichlorobenzene | 3 | .00 | .00 | .00 |
| | 1,2-Dichloroethane | 3 | .00 | .00 | .00 |
| | 1,2-Dichloropropane | 3 | .00 | .00 | .00 |
| | 1,3-Dichlorobenzene | 3 | .00 | .00 | .00 |
| | 1,4-Dichlorobenzene | 3 | .00 | .00 | .00 |
| | Bromoform | 3 | .00 | .00 | .00 |
| | Bromomethane | 3 | .00 | .00 | .00 |
| | Carbon Tetrachloride | 3 | .00 | .00 | .00 |
| | Chlorobenzene | 3 | .00 | .00 | .00 |
| | Chloroform | 3 | .00 | .00 | .00 |
| | Chloromethane | 3 | .00 | .00 | .00 |
| | Cis-1,3-Dichloropropylene | 3 | .00 | .00 | .00 |
| | Dibromochloromethane | 3 | .00 | .00 | .00 |
| | Ethylene Dibromide | 3 | .00 | .00 | .00 |
| | Methylene Chloride | 3 | .00 | .62 | .41 |
| | Tetrachloroethylene | 3 | .00 | .00 | .00 |
| | Trans-1,2-Dichloroethylene | 3 | .00 | .00 | .00 |
| | Trans-1,3-Dichloropropylene | 3 | .00 | .00 | .00 |
| | Trichloroethylene | 3 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-13 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

LASCO
CONTROL POINT: 0100 STREAM: SOUTH POND
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 16 | Trichlorofluoromethane | 3 | .00 | .00 | .00 |
| | Vinyl Chloride | 3 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 3 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 3 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 3 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 3 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 3 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 3 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 3 | 1.33 | 1.33 | 1.33 |
| | 4-Chlorophenyl Phenyl Ether | 3 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 3 | .00 | .00 | .00 |
| | Acenaphthene | 3 | .00 | .00 | .00 |
| | Acenaphthylene | 3 | .00 | .00 | .00 |
| | Anthracene | 3 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 3 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 3 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 3 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 3 | .00 | 1.16 | .77 |
| | Benzo(k)fluoranthene | 3 | .00 | .00 | .00 |
| | Benzobutylphthalate | 3 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 3 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 3 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 3 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 3 | .00 | .00 | .00 |
| | Camphene | 3 | .00 | .00 | .00 |
| | Chrysene | 3 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 3 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 3 | .35 | .35 | .35 |
| | Dibenz(a,h)anthracene | 3 | .00 | .00 | .00 |
| | Diphenylamine | 3 | .00 | .00 | .00 |
| | Fluoranthene | 3 | .00 | .00 | .00 |
| | Fluorene | 3 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 3 | .00 | .00 | .00 |
| | Indole | 3 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 3 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 3 | .00 | .00 | .00 |
| | Naphthalene | 3 | .00 | .00 | .00 |
| | Perylene | 3 | .00 | .00 | .00 |
| | Phenanthrene | 3 | .00 | .00 | .00 |
| | Pyrene | 3 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VI

TABLE VI-13 (continued)
FIELD DUPLICATE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND FIELD DUPLICATE DATA

LASCO
CONTROL POINT: 0100 STREAM: SOUTH POND
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | TNS | DIFFERENCE RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 23 | 1,2,3,4-Tetrachlorobenzene | 3 | .00 | .00 | .00 |
| | 1,2,3,5-Tetrachlorobenzene | 3 | .00 | .00 | .00 |
| | 1,2,3-Trichlorobenzene | 3 | .00 | .00 | .00 |
| | 1,2,4,5-Tetrachlorobenzene | 3 | .00 | .00 | .00 |
| | 1,2,4-Trichlorobenzene | 3 | .00 | .00 | .00 |
| | 2,4,5-Trichlorotoluene | 3 | .00 | .00 | .00 |
| | Hexachlorobenzene | 3 | .00 | .00 | .00 |
| | Hexachlorobutadiene | 3 | .00 | .00 | .00 |
| | Hexachlorocyclopentadiene | 3 | .00 | .00 | .00 |
| | Hexachloroethane | 3 | .00 | .00 | .00 |
| | Octachlorostyrene | 3 | .00 | .00 | .00 |
| | Pentachlorobenzene | 3 | .00 | .00 | .00 |
| 25 | Oil and Grease | 21 | .00 | 7.40 | .77 |
| IS1 | Iron | 15 | .00 | 14.50 | 3.85 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS DUPLICATE SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

# APPENDIX VII

## Uncorrected Sample Data

Concentration Difference Ratio

Absolute value of the difference between process effluent concentration and uncorrected sample concentration divided by the Regulation Method Detection Limit (RMDL).

APPENDIX VII

TABLE VII-1
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

ALGOMA STEEL
CONTROL POINT: 0300 STREAM: 30 INCH SEWER OUTFALL
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | TNS | DIFFERENCE RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 16 | 1,1,2,2-Tetrachloroethane | 2 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 2 | .00 | .00 | .00 |
| | 1,1-Dichloroethane | 2 | .00 | .00 | .00 |
| | 1,1-Dichloroethylene | 2 | .00 | .00 | .00 |
| | 1,2-Dichlorobenzene | 2 | .00 | .00 | .00 |
| | 1,2-Dichloroethane | 2 | .00 | .00 | .00 |
| | 1,2-Dichloropropane | 2 | .00 | .00 | .00 |
| | 1,3-Dichlorobenzene | 2 | .00 | .00 | .00 |
| | 1,4-Dichlorobenzene | 2 | .00 | .00 | .00 |
| | Bromoform | 2 | .00 | .00 | .00 |
| | Bromomethane | 2 | .00 | .00 | .00 |
| | Carbon Tetrachloride | 2 | .00 | .00 | .00 |
| | Chlorobenzene | 2 | .00 | .00 | .00 |
| | Chloroform | 2 | .00 | .00 | .00 |
| | Chloromethane | 2 | .00 | .00 | .00 |
| | Cis-1,3-Dichloropropylene | 2 | .00 | .00 | .00 |
| | Dibromochloromethane | 2 | .00 | .00 | .00 |
| | Ethylene Dibromide | 2 | .00 | .00 | .00 |
| | Methylene Chloride | 2 | .00 | .00 | .00 |
| | Tetrachloroethylene | 2 | .00 | .00 | .00 |
| | Trans-1,2-Dichloroethylene | 2 | .00 | .00 | .00 |
| | Trans-1,3-Dichloropropylene | 2 | .00 | .00 | .00 |
| | Trichloroethylene | 2 | .00 | .00 | .00 |
| | Trichlorofluoromethane | 2 | .00 | .00 | .00 |
| | Vinyl Chloride | 2 | .00 | .00 | .00 |
| 17 | Benzene | 2 | .00 | .00 | .00 |
| | Ethylbenzene | 2 | .00 | .00 | .00 |
| | Styrene | 2 | .00 | .00 | .00 |
| | Toluene | 2 | .00 | .00 | .00 |
| | m-Xylene and p-Xylene | 2 | .00 | .00 | .00 |
| | o-Xylene | 2 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 2 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 2 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 2 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 2 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 2 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 2 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 2 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 2 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-1 (continued)
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

ALGOMA STEEL
CONTROL POINT: 0300 STREAM: 30 INCH SEWER OUTFALL
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 19 | 5-Nitro, Acenaphthene | 2 | .00 | .00 | .00 |
| | Acenaphthene | 2 | .00 | .00 | .00 |
| | Acenaphthylene | 2 | .00 | .00 | .00 |
| | Anthracene | 2 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 2 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 2 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 2 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 2 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 2 | .00 | .00 | .00 |
| | Benzobutylphthalate | 2 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 2 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 2 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 2 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 2 | .00 | .00 | .00 |
| | Camphene | 2 | .00 | .00 | .00 |
| | Chrysene | 2 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 2 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 2 | .00 | .00 | .00 |
| | Dibenz(a,h)anthracene | 2 | .00 | .00 | .00 |
| | Diphenyl Ether | 2 | .00 | .00 | .00 |
| | Diphenylamine | 2 | .00 | .00 | .00 |
| | Fluoranthene | 2 | .00 | .00 | .00 |
| | Fluorene | 2 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 2 | .00 | .00 | .00 |
| | Indole | 2 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 2 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 2 | .00 | .00 | .00 |
| | Naphthalene | 2 | .00 | .00 | .00 |
| | Perylene | 2 | .00 | .00 | .00 |
| | Phenanthrene | 2 | .00 | .00 | .00 |
| | Pyrene | 2 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-2
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

ALGOMA STEEL
CONTROL POINT: 0700 STREAM: TERMINAL SETTLING BASINS
FOR THE PERIOD FROM 891101 TO 900731

| | | | DIFFERENCE RATIO | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 16 | 1,1,2,2-Tetrachloroethane | 10 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 10 | .00 | .00 | .00 |
| | 1,1-Dichloroethane | 10 | .00 | .00 | .00 |
| | 1,1-Dichloroethylene | 10 | .00 | .00 | .00 |
| | 1,2-Dichlorobenzene | 10 | .00 | .00 | .00 |
| | 1,2-Dichloroethane | 10 | .00 | .00 | .00 |
| | 1,2-Dichloropropane | 10 | .00 | .00 | .00 |
| | 1,3-Dichlorobenzene | 10 | .00 | .00 | .00 |
| | 1,4-Dichlorobenzene | 10 | .00 | .00 | .00 |
| | Bromoform | 10 | .00 | .00 | .00 |
| | Bromomethane | 10 | .00 | .00 | .00 |
| | Carbon Tetrachloride | 10 | .00 | .00 | .00 |
| | Chlorobenzene | 10 | .00 | .00 | .00 |
| | Chloroform | 10 | .00 | .00 | .00 |
| | Chloromethane | 10 | .00 | .00 | .00 |
| | Cis-1,3-Dichloropropylene | 10 | .00 | .00 | .00 |
| | Dibromochloromethane | 10 | .00 | .00 | .00 |
| | Ethylene Dibromide | 10 | .00 | .00 | .00 |
| | Methylene Chloride | 10 | .00 | .00 | .00 |
| | Tetrachloroethylene | 10 | .00 | .00 | .00 |
| | Trans-1,2-Dichloroethylene | 10 | .00 | .00 | .00 |
| | Trans-1,3-Dichloropropylene | 10 | .00 | .00 | .00 |
| | Trichloroethylene | 10 | .00 | .00 | .00 |
| | Trichlorofluoromethane | 10 | .00 | .00 | .00 |
| | Vinyl Chloride | 10 | .00 | .00 | .00 |
| 17 | Benzene | 10 | .00 | .00 | .00 |
| | Ethylbenzene | 10 | .00 | .00 | .00 |
| | Styrene | 10 | .00 | .00 | .00 |
| | Toluene | 10 | .00 | .00 | .00 |
| | m-Xylene and p-Xylene | 10 | .00 | .00 | .00 |
| | o-Xylene | 10 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 10 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 10 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 10 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 10 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 10 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 10 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 10 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 10 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-2 (continued)
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

ALGOMA STEEL
CONTROL POINT: 0700 STREAM: TERMINAL SETTLING BASINS
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 19 | 5-Nitro, Acenaphthene | 10 | .00 | .00 | .00 |
| | Acenaphthene | 10 | .00 | .00 | .00 |
| | Acenaphthylene | 10 | .00 | .00 | .00 |
| | Anthracene | 10 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 10 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 10 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 10 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 10 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 10 | .00 | .00 | .00 |
| | Benzobutylphthalate | 10 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 10 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 10 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 10 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 10 | .00 | .00 | .00 |
| | Camphene | 10 | .00 | .00 | .00 |
| | Chrysene | 10 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 10 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 10 | .00 | .00 | .00 |
| | Dibenz(a,h)anthracene | 10 | .00 | .00 | .00 |
| | Diphenyl Ether | 8 | .00 | .00 | .00 |
| | Diphenylamine | 10 | .00 | .00 | .00 |
| | Fluoranthene | 10 | .00 | .00 | .00 |
| | Fluorene | 10 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 10 | .00 | .00 | .00 |
| | Indole | 10 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 10 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 10 | .00 | .00 | .00 |
| | Naphthalene | 10 | .00 | .00 | .00 |
| | Perylene | 10 | .00 | .00 | .00 |
| | Phenanthrene | 10 | .00 | .00 | .00 |
| | Pyrene | 10 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-3
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

ALGOMA STEEL
CONTROL POINT: 1400 STREAM: BY-PRODUCTS AREA
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | TNS | DIFFERENCE RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 17 | Benzene | 118 | .00 | .00 | .00 |
| | Ethylbenzene | 6 | .00 | .00 | .00 |
| | Styrene | 6 | .00 | .00 | .00 |
| | Toluene | 6 | .00 | .00 | .00 |
| | m-Xylene and p-Xylene | 6 | .00 | .00 | .00 |
| | o-Xylene | 6 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 7 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 7 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 7 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 7 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 7 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 7 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 7 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 7 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 7 | .00 | .00 | .00 |
| | Acenaphthene | 7 | .00 | .00 | .00 |
| | Acenaphthylene | 7 | .00 | .00 | .00 |
| | Anthracene | 7 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 7 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 112 | .00 | .08 | .00 |
| | Benzo(b)fluoranthene | 7 | .00 | .57 | .08 |
| | Benzo(g,h,i)perylene | 7 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 7 | .00 | .00 | .00 |
| | Benzobutylphthalate | 7 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 7 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 7 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 7 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 7 | .00 | 1.59 | .23 |
| | Camphene | 7 | .00 | .00 | .00 |
| | Chrysene | 7 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 7 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 7 | .00 | .00 | .00 |
| | Dibenz(a,h)anthracene | 7 | .00 | .00 | .00 |
| | Diphenylamine | 7 | .00 | .00 | .00 |
| | Fluoranthene | 7 | .00 | .00 | .00 |
| | Fluorene | 7 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 7 | .00 | .00 | .00 |
| | Indole | 7 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 7 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 7 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-3 (continued)
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

ALGOMA STEEL
CONTROL POINT: 1400 STREAM: BY-PRODUCTS AREA
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 19 | Naphthalene | 112 | .00 | .00 | .00 |
| | Perylene | 7 | .00 | .00 | .00 |
| | Phenanthrene | 7 | .00 | .00 | .00 |
| | Pyrene | 7 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-4
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

DOFASCO INC.
CONTROL POINT: 0300 STREAM: BOILER HOUSE SEWER #1
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 16 | 1,1,2,2-Tetrachloroethane | 4 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 4 | .00 | .00 | .00 |
| | 1,1-Dichloroethane | 4 | .00 | .00 | .00 |
| | 1,1-Dichloroethylene | 4 | .00 | .00 | .00 |
| | 1,2-Dichlorobenzene | 4 | .00 | .00 | .00 |
| | 1,2-Dichloroethane | 4 | .00 | .00 | .00 |
| | 1,2-Dichloropropane | 4 | .00 | .00 | .00 |
| | 1,3-Dichlorobenzene | 4 | .00 | .00 | .00 |
| | 1,4-Dichlorobenzene | 4 | .00 | .00 | .00 |
| | Bromoform | 4 | .00 | .00 | .00 |
| | Bromomethane | 4 | .00 | .00 | .00 |
| | Carbon Tetrachloride | 4 | .00 | .00 | .00 |
| | Chlorobenzene | 4 | .00 | .00 | .00 |
| | Chloroform | 4 | .00 | .86 | .21 |
| | Chloromethane | 4 | .00 | .00 | .00 |
| | Cis-1,3-Dichloropropylene | 4 | .00 | .00 | .00 |
| | Dibromochloromethane | 4 | .00 | .00 | .00 |
| | Ethylene Dibromide | 4 | .00 | .00 | .00 |
| | Methylene Chloride | 4 | .69 | 1.62 | 1.00 |
| | Tetrachloroethylene | 4 | .00 | .00 | .00 |
| | Trans-1,2-Dichloroethylene | 4 | .00 | .00 | .00 |
| | Trans-1,3-Dichloropropylene | 4 | .00 | .00 | .00 |
| | Trichloroethylene | 4 | .00 | .00 | .00 |
| | Trichlorofluoromethane | 4 | .00 | .00 | .00 |
| | Vinyl Chloride | 4 | .00 | .00 | .00 |
| 17 | Benzene | 4 | .80 | 1.60 | 1.05 |
| | Ethylbenzene | 4 | .00 | .00 | .00 |
| | Styrene | 4 | .00 | .00 | .00 |
| | Toluene | 4 | 1.60 | 7.00 | 4.00 |
| | m-Xylene and p-Xylene | 4 | .00 | .00 | .00 |
| | o-Xylene | 4 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 4 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 4 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 4 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 4 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 4 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 4 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 4 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 4 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 4 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMOL

APPENDIX VII

TABLE VII-4 (continued)
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

DOFASCO INC.
CONTROL POINT: 0300 STREAM: BOILER HOUSE SEWER #1
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | TNS | DIFFERENCE RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 19 | Acenaphthene | 4 | .00 | .00 | .00 |
| | Acenaphthylene | 4 | .00 | .00 | .00 |
| | Anthracene | 4 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 4 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 4 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 4 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 4 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 4 | .00 | .00 | .00 |
| | Benzobutylphthalate | 4 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 4 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 4 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 4 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 4 | .00 | .00 | .00 |
| | Camphene | 4 | .00 | .00 | .00 |
| | Chrysene | 4 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 4 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 4 | .00 | .00 | .00 |
| | Dibenz(a,h)anthracene | 4 | .00 | .00 | .00 |
| | Diphenylamine | 4 | .00 | .00 | .00 |
| | Fluoranthene | 4 | .00 | .00 | .00 |
| | Fluorene | 4 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 4 | .00 | .00 | .00 |
| | Indole | 4 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 4 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 4 | .00 | .00 | .00 |
| | Naphthalene | 4 | .00 | .00 | .00 |
| | Perylene | 4 | .00 | .00 | .00 |
| | Phenanthrene | 4 | .00 | .00 | .00 |
| | Pyrene | 4 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-5
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

DOFASCO INC.
CONTROL POINT: 0400 STREAM: WEST BAY FRONT SEWER
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | TNS | DIFFERENCE RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 16 | 1,1,2,2-Tetrachloroethane | 10 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 10 | .00 | .00 | .00 |
| | 1,1-Dichloroethane | 10 | .00 | .00 | .00 |
| | 1,1-Dichloroethylene | 10 | .00 | .00 | .00 |
| | 1,2-Dichlorobenzene | 10 | .00 | .00 | .00 |
| | 1,2-Dichloroethane | 10 | .00 | 3.00 | .30 |
| | 1,2-Dichloropropane | 10 | .00 | .00 | .00 |
| | 1,3-Dichlorobenzene | 10 | .00 | .00 | .00 |
| | 1,4-Dichlorobenzene | 10 | .00 | .00 | .00 |
| | Bromoform | 10 | .00 | .00 | .00 |
| | Bromomethane | 10 | .00 | 1.62 | .16 |
| | Carbon Tetrachloride | 10 | .00 | .00 | .00 |
| | Chlorobenzene | 10 | .00 | .00 | .00 |
| | Chloroform | 10 | .00 | .57 | .20 |
| | Chloromethane | 10 | .00 | 1.08 | .11 |
| | Cis-1,3-Dichloropropylene | 10 | .00 | .00 | .00 |
| | Dibromochloromethane | 10 | .00 | .00 | .00 |
| | Ethylene Dibromide | 10 | .00 | .00 | .00 |
| | Methylene Chloride | 10 | 1.00 | 2.31 | 1.35 |
| | Tetrachloroethylene | 10 | .00 | .18 | .02 |
| | Trans-1,2-Dichloroethylene | 10 | .00 | .00 | .00 |
| | Trans-1,3-Dichloropropylene | 10 | .00 | .00 | .00 |
| | Trichloroethylene | 10 | .00 | .00 | .00 |
| | Trichlorofluoromethane | 10 | .00 | .00 | .00 |
| | Vinyl Chloride | 10 | .00 | .00 | .00 |
| 17 | Benzene | 10 | .80 | 21.60 | 3.95 |
| | Ethylbenzene | 10 | .00 | .00 | .00 |
| | Styrene | 10 | .00 | .00 | .00 |
| | Toluene | 10 | 1.20 | 7.20 | 4.76 |
| | m-Xylene and p-Xylene | 10 | .00 | .64 | .09 |
| | o-Xylene | 10 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 10 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 10 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 10 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 10 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 10 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 10 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 10 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 10 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 10 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-5 (continued)
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

DOFASCO INC.
CONTROL POINT: 0400 STREAM: WEST BAY FRONT SEWER
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 19 | Acenaphthene | 10 | .00 | .00 | .00 |
| | Acenaphthylene | 10 | .00 | .00 | .00 |
| | Anthracene | 10 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 10 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 10 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 10 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 10 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 10 | .00 | .00 | .00 |
| | Benzobutylphthalate | 10 | .00 | .50 | .05 |
| | Bis(2-chloroethoxyl)methane | 10 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 10 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 10 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 10 | .00 | .27 | .03 |
| | Camphene | 10 | .00 | .00 | .00 |
| | Chrysene | 10 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 10 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 10 | .00 | 1.90 | .19 |
| | Dibenz(a,h)anthracene | 10 | .00 | .00 | .00 |
| | Diphenylamine | 10 | .00 | .00 | .00 |
| | Fluoranthene | 10 | .00 | 1.50 | .15 |
| | Fluorene | 10 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 10 | .00 | .00 | .00 |
| | Indole | 10 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 10 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 10 | .00 | .00 | .00 |
| | Naphthalene | 10 | .00 | .00 | .00 |
| | Perylene | 10 | .00 | .00 | .00 |
| | Phenanthrene | 10 | .00 | .00 | .00 |
| | Pyrene | 10 | .00 | .50 | .05 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-6
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

DOFASCO INC.
CONTROL POINT: 0700 STREAM: COKE PLANT BIOLOGICAL PLANT DISCHARGE
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 17 | Benzene | 157 | .00 | 27.60 | 2.41 |
| | Ethylbenzene | 12 | .00 | .33 | .03 |
| | Styrene | 12 | .00 | 1.40 | .12 |
| | Toluene | 12 | 1.40 | 10.00 | 4.63 |
| | m-Xylene and p-Xylene | 12 | .00 | 1.82 | .68 |
| | o-Xylene | 12 | .00 | 1.60 | .13 |
| 19 | 1-Chloronaphthalene | 12 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 12 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 12 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 12 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 12 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 12 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 12 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 12 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 12 | .00 | .00 | .00 |
| | Acenaphthene | 12 | .00 | .00 | .00 |
| | Acenaphthylene | 12 | .00 | .00 | .00 |
| | Anthracene | 12 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 12 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 157 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 12 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 12 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 12 | .00 | .00 | .00 |
| | Benzobutylphthalate | 12 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 12 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 12 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 12 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 12 | .00 | .00 | .00 |
| | Camphene | 12 | .00 | .00 | .00 |
| | Chrysene | 12 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 12 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 12 | .00 | .00 | .00 |
| | Dibenz(a,h)anthracene | 12 | .00 | .00 | .00 |
| | Diphenylamine | 12 | .00 | .00 | .00 |
| | Fluoranthene | 12 | .00 | .00 | .00 |
| | Fluorene | 12 | .00 | .59 | .05 |
| | Indeno(1,2,3-cd)pyrene | 12 | .00 | .00 | .00 |
| | Indole | 12 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 12 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 12 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-6 (continued)
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

DOFASCO INC.
CONTROL POINT: 0700 STREAM: COKE PLANT BIOLOGICAL PLANT DISCHARGE
FOR THE PERIOD FROM 891101 TO 901031

| | | | DIFFERENCE RATIO | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Naphthalene | 157 | .00 | .00 | .00 |
| | Perylene | 12 | .00 | .00 | .00 |
| | Phenanthrene | 12 | .00 | .00 | .00 |
| | Pyrene | 12 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-7
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

STELCO STEEL HILTON WORKS
CONTROL POINT: 0100 STREAM: WEST SIDE OPEN CUT
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 16 | 1,1,2,2-Tetrachloroethane | 5 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 5 | .00 | .00 | .00 |
| | 1,1-Dichloroethane | 5 | .00 | .00 | .00 |
| | 1,1-Dichloroethylene | 5 | .00 | .46 | .11 |
| | 1,2-Dichlorobenzene | 5 | .00 | .00 | .00 |
| | 1,2-Dichloroethane | 5 | .00 | .00 | .00 |
| | 1,2-Dichloropropane | 5 | .00 | .00 | .00 |
| | 1,3-Dichlorobenzene | 5 | .00 | .00 | .00 |
| | 1,4-Dichlorobenzene | 5 | .00 | .06 | .01 |
| | Bromoform | 5 | .00 | .00 | .00 |
| | Bromomethane | 5 | .00 | .59 | .12 |
| | Carbon Tetrachloride | 5 | .00 | .00 | .00 |
| | Chlorobenzene | 5 | .00 | .00 | .00 |
| | Chloroform | 5 | .00 | 1.14 | .57 |
| | Chloromethane | 5 | .00 | .16 | .03 |
| | Cis-1,3-Dichloropropylene | 5 | .00 | .00 | .00 |
| | Dibromochloromethane | 5 | .00 | .36 | .07 |
| | Ethylene Dibromide | 5 | .00 | .00 | .00 |
| | Methylene Chloride | 5 | .00 | 2.77 | 1.83 |
| | Tetrachloroethylene | 5 | .00 | .09 | .02 |
| | Trans-1,2-Dichloroethylene | 5 | .00 | .00 | .00 |
| | Trans-1,3-Dichloropropylene | 5 | .00 | .00 | .00 |
| | Trichloroethylene | 5 | .00 | .00 | .00 |
| | Trichlorofluoromethane | 5 | .00 | .00 | .00 |
| | Vinyl Chloride | 5 | .00 | .00 | .00 |
| 17 | Benzene | 53 | .00 | 21.60 | 3.58 |
| | Ethylbenzene | 5 | .00 | .00 | .00 |
| | Styrene | 5 | .00 | .00 | .00 |
| | Toluene | 5 | .70 | 7.80 | 3.78 |
| | m-Xylene and p-Xylene | 5 | .00 | .45 | .09 |
| | o-Xylene | 5 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 5 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 5 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 5 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 5 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 5 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 5 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 5 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 5 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 5 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-7 (continued)
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

STELCO STEEL HILTON WORKS
CONTROL POINT: 0100 STREAM: WEST SIDE OPEN CUT
FOR THE PERIOD FROM 891101 TO 900731

| | | | DIFFERENCE RATIO | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Acenaphthene | 5 | .00 | .00 | .00 |
| | Acenaphthylene | 5 | .00 | .00 | .00 |
| | Anthracene | 5 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 5 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 53 | .00 | 1.00 | .02 |
| | Benzo(b)fluoranthene | 5 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 5 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 5 | .00 | .00 | .00 |
| | Benzobutylphthalate | 5 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 5 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 5 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 5 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 5 | .00 | .32 | .06 |
| | Camphene | 5 | .00 | .00 | .00 |
| | Chrysene | 5 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 5 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 5 | .00 | .40 | .16 |
| | Dibenz(a,h)anthracene | 5 | .00 | .00 | .00 |
| | Diphenylamine | 5 | .00 | .00 | .00 |
| | Fluoranthene | 5 | .00 | .00 | .00 |
| | Fluorene | 5 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 5 | .00 | .00 | .00 |
| | Indole | 5 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 5 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 5 | .00 | .00 | .00 |
| | Naphthalene | 53 | .00 | .00 | .00 |
| | Perylene | 5 | .00 | .00 | .00 |
| | Phenanthrene | 5 | .00 | .00 | .00 |
| | Pyrene | 5 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-8
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

STELCO STEEL HILTON WORKS
CONTROL POINT: 0601 STREAM: EAST SIDE FILTER PLANT
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | TNS | DIFFERENCE RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 16 | 1,1,2,2-Tetrachloroethane | 9 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 9 | .00 | .00 | .00 |
| | 1,1-Dichloroethane | 9 | .00 | .00 | .00 |
| | 1,1-Dichloroethylene | 9 | .00 | .36 | .04 |
| | 1,2-Dichlorobenzene | 9 | .00 | .00 | .00 |
| | 1,2-Dichloroethane | 9 | .00 | .00 | .00 |
| | 1,2-Dichloropropane | 9 | .00 | .00 | .00 |
| | 1,3-Dichlorobenzene | 9 | .00 | .00 | .00 |
| | 1,4-Dichlorobenzene | 9 | .00 | .00 | .00 |
| | Bromoform | 9 | .00 | .00 | .00 |
| | Bromomethane | 9 | .00 | .81 | .09 |
| | Carbon Tetrachloride | 9 | .00 | .00 | .00 |
| | Chlorobenzene | 9 | .00 | .00 | .00 |
| | Chloroform | 9 | .00 | 4.76 | .80 |
| | Chloromethane | 9 | .00 | 1.27 | .14 |
| | Cis-1,3-Dichloropropylene | 9 | .00 | .00 | .00 |
| | Dibromochloromethane | 9 | .00 | .00 | .00 |
| | Ethylene Dibromide | 9 | .00 | .00 | .00 |
| | Methylene Chloride | 9 | .00 | 5.15 | 2.42 |
| | Tetrachloroethylene | 9 | .00 | .00 | .00 |
| | Trans-1,2-Dichloroethylene | 9 | .00 | .00 | .00 |
| | Trans-1,3-Dichloropropylene | 9 | .00 | .00 | .00 |
| | Trichloroethylene | 9 | .00 | .00 | .00 |
| | Trichlorofluoromethane | 9 | .00 | .00 | .00 |
| | Vinyl Chloride | 9 | .00 | .00 | .00 |
| 17 | Benzene | 117 | .00 | 18.00 | 2.39 |
| | Ethylbenzene | 9 | .00 | .00 | .00 |
| | Styrene | 9 | .00 | .00 | .00 |
| | Toluene | 9 | .00 | 7.40 | 2.49 |
| | m-Xylene and p-Xylene | 9 | .00 | 3.36 | .49 |
| | o-Xylene | 9 | .00 | .80 | .09 |
| 19 | 1-Chloronaphthalene | 9 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 9 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 9 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 9 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 9 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 9 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 9 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 9 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 9 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-8 (continued)
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

STELCO STEEL HILTON WORKS
CONTROL POINT: 0601 STREAM: EAST SIDE FILTER PLANT
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 19 | Acenaphthene | 9 | .00 | .00 | .00 |
| | Acenaphthylene | 9 | .00 | .00 | .00 |
| | Anthracene | 9 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 9 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 116 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 9 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 9 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 9 | .00 | .00 | .00 |
| | Benzobutylphthalate | 9 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 9 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 9 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 9 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 9 | .00 | .00 | .00 |
| | Camphene | 9 | .00 | .00 | .00 |
| | Chrysene | 9 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 9 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 5 | .00 | .40 | .10 |
| | Dibenz(a,h)anthracene | 9 | .00 | .00 | .00 |
| | Diphenylamine | 9 | .00 | .00 | .00 |
| | Fluoranthene | 9 | .00 | .00 | .00 |
| | Fluorene | 9 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 9 | .00 | .00 | .00 |
| | Indole | 9 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 9 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 9 | .00 | .00 | .00 |
| | Naphthalene | 116 | .00 | .00 | .00 |
| | Perylene | 9 | .00 | .00 | .00 |
| | Phenanthrene | 9 | .00 | .00 | .00 |
| | Pyrene | 9 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-9
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0100 STREAM: #4 POND DISCHARGE
FOR THE PERIOD FROM 891101 TO 900731

| | | | DIFFERENCE RATIO | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 16 | 1,1,2,2-Tetrachloroethane | 9 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 9 | .00 | .00 | .00 |
| | 1,1-Dichloroethane | 9 | .00 | .00 | .00 |
| | 1,1-Dichloroethylene | 9 | .00 | .00 | .00 |
| | 1,2-Dichlorobenzene | 9 | .00 | .00 | .00 |
| | 1,2-Dichloroethane | 9 | .00 | .00 | .00 |
| | 1,2-Dichloropropane | 9 | .00 | .00 | .00 |
| | 1,3-Dichlorobenzene | 9 | .00 | .00 | .00 |
| | 1,4-Dichlorobenzene | 9 | .00 | .00 | .00 |
| | Bromoform | 9 | .00 | .00 | .00 |
| | Bromomethane | 9 | .00 | 7.73 | .97 |
| | Carbon Tetrachloride | 9 | .00 | .00 | .00 |
| | Chlorobenzene | 9 | .00 | .00 | .00 |
| | Chloroform | 9 | .00 | 4.29 | 1.81 |
| | Chloromethane | 9 | .00 | 1.35 | .16 |
| | Cis-1,3-Dichloropropylene | 9 | .00 | .00 | .00 |
| | Dibromochloromethane | 9 | .00 | .91 | .10 |
| | Ethylene Dibromide | 9 | .00 | .00 | .00 |
| | Methylene Chloride | 9 | .00 | 3.92 | 2.07 |
| | Tetrachloroethylene | 9 | .00 | .00 | .00 |
| | Trans-1,2-Dichloroethylene | 9 | .00 | .00 | .00 |
| | Trans-1,3-Dichloropropylene | 9 | .00 | .00 | .00 |
| | Trichloroethylene | 9 | .00 | .00 | .00 |
| | Trichlorofluoromethane | 9 | .00 | .00 | .00 |
| | Vinyl Chloride | 9 | .00 | .00 | .00 |
| 17 | Benzene | 9 | .00 | 5.40 | 1.96 |
| | Ethylbenzene | 3 | .00 | .00 | .00 |
| | Styrene | 9 | .00 | .00 | .00 |
| | Toluene | 9 | .00 | 7.60 | 3.84 |
| | m-Xylene and p-Xylene | 9 | .00 | .64 | .07 |
| | o-Xylene | 9 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 9 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 9 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 9 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 9 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 9 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 9 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 9 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 9 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 9 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-9 (continued)
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0100 STREAM: #4 POND DISCHARGE
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | TNS | DIFFERENCE RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 19 | Acenaphthene | 9 | .00 | .00 | .00 |
| | Acenaphthylene | 9 | .00 | .00 | .00 |
| | Anthracene | 9 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 9 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 9 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 9 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 9 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 9 | .00 | .00 | .00 |
| | Benzobutylphthalate | 9 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 9 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 9 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 9 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 9 | .00 | .00 | .00 |
| | Camphene | 9 | .00 | .00 | .00 |
| | Chrysene | 9 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 9 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 9 | .00 | .20 | .02 |
| | Dibenz(a,h)anthracene | 9 | .00 | .00 | .00 |
| | Diphenylamine | 9 | .00 | .00 | .00 |
| | Fluoranthene | 9 | .00 | .00 | .00 |
| | Fluorene | 9 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 9 | .00 | .00 | .00 |
| | Indole | 9 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 9 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 9 | .00 | .00 | .00 |
| | Naphthalene | 9 | .00 | .00 | .00 |
| | Perylene | 9 | .00 | .00 | .00 |
| | Phenanthrene | 9 | .00 | .00 | .00 |
| | Pyrene | 9 | .00 | .00 | .00 |
| 20 | 2,3,4,5-Tetrachlorophenol | 1 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-10
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0400 STREAM: BLOWDOWN TREATMENT PLANT
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | TNS | DIFFERENCE RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 17 | Benzene | 117 | .00 | 19.60 | 2.78 |
| | Ethylbenzene | 2 | .00 | .00 | .00 |
| | Styrene | 9 | .00 | .00 | .00 |
| | Toluene | 9 | .00 | 8.80 | 3.98 |
| | m-Xylene and p-Xylene | 9 | .00 | .00 | .00 |
| | o-Xylene | 9 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 9 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 9 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 9 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 9 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 9 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 9 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 9 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 9 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 9 | .00 | .00 | .00 |
| | Acenaphthene | 9 | .00 | .00 | .00 |
| | Acenaphthylene | 9 | .00 | .00 | .00 |
| | Anthracene | 9 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 9 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 116 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 9 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 9 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 9 | .00 | .00 | .00 |
| | Benzobutylphthalate | 9 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 9 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 9 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 9 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 9 | .00 | .00 | .00 |
| | Camphene | 9 | .00 | .00 | .00 |
| | Chrysene | 9 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 9 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 9 | .00 | .00 | .00 |
| | Dibenz(a,h)anthracene | 9 | .00 | .00 | .00 |
| | Diphenylamine | 9 | .00 | .00 | .00 |
| | Fluoranthene | 9 | .00 | .00 | .00 |
| | Fluorene | 9 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 9 | .00 | .00 | .00 |
| | Indole | 9 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 9 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 9 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-10 (continued)
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

STELCO STEEL LAKE ERIE WORKS
CONTROL POINT: 0400 STREAM: BLOWDOWN TREATMENT PLANT
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 19 | Naphthalene | 116 | .00 | .00 | .00 |
| | Perylene | 9 | .00 | .00 | .00 |
| | Phenanthrene | 9 | .00 | .00 | .00 |
| | Pyrene | 9 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-11
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

ATLAS SPECIALTY STEEL
CONTROL POINT: 0100 STREAM: 42 INCH SEWER
FOR THE PERIOD FROM 891101 TO 901031

| | | | DIFFERENCE RATIO | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 16 | 1,1,2,2-Tetrachloroethane | 6 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 6 | .00 | .00 | .00 |
| | 1,1-Dichloroethane | 6 | .00 | .00 | .00 |
| | 1,1-Dichloroethylene | 6 | .00 | .00 | .00 |
| | 1,2-Dichlorobenzene | 6 | .00 | .00 | .00 |
| | 1,2-Dichloroethane | 6 | .00 | .00 | .00 |
| | 1,2-Dichloropropane | 6 | .00 | .00 | .00 |
| | 1,3-Dichlorobenzene | 6 | .00 | .00 | .00 |
| | 1,4-Dichlorobenzene | 6 | .00 | .00 | .00 |
| | Bromoform | 6 | .00 | .00 | .00 |
| | Bromomethane | 6 | .00 | .00 | .00 |
| | Carbon Tetrachloride | 6 | .00 | .00 | .00 |
| | Chlorobenzene | 6 | .00 | .00 | .00 |
| | Chloroform | 6 | .00 | .00 | .00 |
| | Chloromethane | 6 | .00 | .00 | .00 |
| | Cis-1,3-Dichloropropylene | 6 | .00 | .00 | .00 |
| | Dibromochloromethane | 6 | .00 | .00 | .00 |
| | Ethylene Dibromide | 6 | .00 | .00 | .00 |
| | Methylene Chloride | 6 | .00 | .00 | .00 |
| | Tetrachloroethylene | 6 | .00 | .00 | .00 |
| | Trans-1,2-Dichloroethylene | 6 | .00 | .00 | .00 |
| | Trans-1,3-Dichloropropylene | 6 | .00 | .00 | .00 |
| | Trichloroethylene | 6 | .00 | .00 | .00 |
| | Trichlorofluoromethane | 6 | .00 | .00 | .00 |
| | Vinyl Chloride | 6 | .00 | .00 | .00 |
| 17 | Benzene | 5 | .00 | .00 | .00 |
| | Ethylbenzene | 5 | .00 | .00 | .00 |
| | Styrene | 5 | .00 | .00 | .00 |
| | Toluene | 5 | .00 | .00 | .00 |
| | m-Xylene and p-Xylene | 5 | .00 | .00 | .00 |
| | o-Xylene | 5 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 6 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 6 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 6 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 6 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 6 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 6 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 6 | .00 | .00 | .00 |
| | 4-Chlorophenyl Phenyl Ether | 6 | .00 | .00 | .00 |
| | 5-Nitro, Acenaphthene | 6 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-11 (continued)
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

ATLAS SPECIALTY STEEL
CONTROL POINT: 0100 STREAM: 42 INCH SEWER
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 19 | Acenaphthene | 6 | .00 | .00 | .00 |
| | Acenaphthylene | 6 | .00 | .00 | .00 |
| | Anthracene | 6 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 6 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 6 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 6 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 6 | .00 | .00 | .00 |
| | Benzo(k)fluoranthene | 6 | .00 | .00 | .00 |
| | Benzobutylphthalate | 6 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 6 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 6 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 6 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 6 | .00 | .00 | .00 |
| | Camphene | 6 | .00 | .00 | .00 |
| | Chrysene | 6 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 6 | .00 | .00 | .00 |
| | Dibenz(a,h)anthracene | 6 | .00 | .00 | .00 |
| | Diphenylamine | 6 | .00 | .00 | .00 |
| | Fluoranthene | 6 | .00 | .00 | .00 |
| | Fluorene | 6 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 6 | .00 | .00 | .00 |
| | Indole | 6 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 6 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 6 | .00 | .00 | .00 |
| | Naphthalene | 6 | .00 | .00 | .00 |
| | Perylene | 6 | .00 | .00 | .00 |
| | Phenanthrene | 6 | .00 | .00 | .00 |
| | Pyrene | 6 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-12
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

IVACO ROLLING MILLS
CONTROL POINT: 0200 STREAM: EAST DISCHARGE (WHEN COOLING WATER)
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | TNS | DIFFERENCE RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 16 | 1,1,2,2-Tetrachloroethane | 5 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 5 | .00 | .65 | .13 |
| | 1,1-Dichloroethane | 5 | .00 | .37 | .07 |
| | 1,1-Dichloroethylene | 5 | .00 | .00 | .00 |
| | 1,2-Dichlorobenzene | 5 | .00 | .11 | .02 |
| | 1,2-Dichloroethane | 5 | .00 | .52 | .11 |
| | 1,2-Dichloropropane | 5 | .00 | .33 | .07 |
| | 1,3-Dichlorobenzene | 5 | .00 | .06 | .01 |
| | 1,4-Dichlorobenzene | 5 | .00 | .01 | .00 |
| | Bromoform | 5 | .00 | .08 | .02 |
| | Bromomethane | 5 | .00 | .54 | .28 |
| | Carbon Tetrachloride | 5 | .00 | .48 | .10 |
| | Chlorobenzene | 5 | .00 | .49 | .10 |
| | Chloroform | 5 | .00 | .00 | .00 |
| | Chloromethane | 5 | .00 | .45 | .16 |
| | Cis-1,3-Dichloropropylene | 5 | .00 | .31 | .06 |
| | Dibromochloromethane | 5 | .00 | .15 | .03 |
| | Ethylene Dibromide | 5 | .00 | .42 | .08 |
| | Methylene Chloride | 5 | .78 | 2.54 | 1.66 |
| | Tetrachloroethylene | 5 | .00 | .00 | .00 |
| | Trans-1,2-Dichloroethylene | 5 | .00 | .14 | .03 |
| | Trans-1,3-Dichloropropylene | 5 | .00 | .71 | .14 |
| | Trichloroethylene | 4 | .00 | .00 | .00 |
| | Trichlorofluoromethane | 5 | .00 | .04 | .01 |
| | Vinyl Chloride | 5 | .00 | .54 | .11 |
| 17 | Benzene | 5 | .00 | 3.88 | .78 |
| | Ethylbenzene | 5 | .00 | .48 | .17 |
| | Styrene | 5 | .00 | .25 | .08 |
| | Toluene | 5 | .28 | 1.15 | .76 |
| | m-Xylene and p-Xylene | 5 | .00 | .42 | .08 |
| | o-Xylene | 5 | .00 | .72 | .14 |
| 19 | 1-Chloronaphthalene | 5 | .00 | .06 | .01 |
| | 1-Methylnaphthalene | 5 | .00 | .03 | .01 |
| | 2,4-Dinitrotoluene | 5 | .00 | 1.00 | .25 |
| | 2,6-Dinitrotoluene | 5 | .00 | 1.00 | .26 |
| | 2-Chloronaphthalene | 5 | .00 | .42 | .08 |
| | 2-Methylnaphthalene | 5 | .00 | .03 | .01 |
| | 4-Bromophenyl Phenyl Ether | 5 | .00 | .13 | .03 |
| | 4-Chlorophenyl Phenyl Ether | 5 | .00 | .22 | .04 |
| | 5-Nitro, Acenaphthene | 5 | .00 | .06 | .01 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-12 (continued)
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

IVACO ROLLING MILLS
CONTROL POINT: 0200 STREAM: EAST DISCHARGE (WHEN COOLING WATER)
FOR THE PERIOD FROM 891101 TO 901031

| | | | DIFFERENCE RATIO | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Acenaphthene | 5 | .00 | .26 | .05 |
| | Acenaphthylene | 5 | .00 | .28 | .06 |
| | Anthracene | 5 | .00 | .07 | .01 |
| | Benzo(a)anthracene | 5 | .00 | .26 | .05 |
| | Benzo(a)pyrene | 5 | .00 | .75 | .15 |
| | Benzo(b)fluoranthene | 5 | .00 | .30 | .06 |
| | Benzo(g,h,i)perylene | 5 | .00 | .57 | .11 |
| | Benzo(k)fluoranthene | 5 | .00 | .50 | .10 |
| | Benzobutylphthalate | 5 | .00 | 5.50 | 2.37 |
| | Bis(2-chloroethoxyl)methane | 5 | .00 | .27 | .10 |
| | Bis(2-chloroethyl)ether | 5 | .00 | .20 | .07 |
| | Bis(2-chloroisopropyl)ether | 5 | .00 | .36 | .10 |
| | Bis(2-ethylhexyl)phthalate | 5 | .00 | 1.64 | 1.04 |
| | Camphene | 5 | .00 | .05 | .01 |
| | Chrysene | 5 | .00 | .40 | .08 |
| | Di-n-butyl Phthalate | 5 | .00 | 11.50 | 4.68 |
| | Dibenz(a,h)anthracene | 5 | .00 | .66 | .13 |
| | Diphenylamine | 5 | .00 | .27 | .11 |
| | Fluoranthene | 5 | .00 | .68 | .13 |
| | Fluorene | 5 | .00 | .21 | .06 |
| | Indeno(1,2,3-cd)pyrene | 5 | .00 | .37 | .07 |
| | Indole | 5 | .00 | .25 | .05 |
| | N-Nitrosodi-n-propylamine | 5 | .00 | .39 | .14 |
| | Naphthalene | 5 | .00 | .13 | .03 |
| | Perylene | 5 | .00 | .33 | .07 |
| | Phenanthrene | 5 | .00 | .50 | .10 |
| | Pyrene | 5 | .00 | .35 | .07 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-13
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

LASCO
CONTROL POINT: 0100 STREAM: SOUTH POND
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 9 | Lead | 5 | 3.67 | 4.67 | 3.87 |
| 16 | 1,1,2,2-Tetrachloroethane | 11 | .00 | .00 | .00 |
| | 1,1,2-Trichloroethane | 11 | .00 | .00 | .00 |
| | 1,1-Dichloroethane | 11 | .00 | .00 | .00 |
| | 1,1-Dichloroethylene | 11 | .00 | .00 | .00 |
| | 1,2-Dichlorobenzene | 11 | .00 | .00 | .00 |
| | 1,2-Dichloroethane | 11 | .00 | .00 | .00 |
| | 1,2-Dichloropropane | 11 | .00 | .00 | .00 |
| | 1,3-Dichlorobenzene | 11 | .00 | .00 | .00 |
| | 1,4-Dichlorobenzene | 11 | .00 | .00 | .00 |
| | Bromoform | 11 | .00 | .00 | .00 |
| | Bromomethane | 11 | .00 | .00 | .00 |
| | Carbon Tetrachloride | 11 | .00 | .00 | .00 |
| | Chlorobenzene | 11 | .00 | .00 | .00 |
| | Chloroform | 11 | .00 | .00 | .00 |
| | Chloromethane | 11 | .00 | .00 | .00 |
| | Cis-1,3-Dichloropropylene | 11 | .00 | .00 | .00 |
| | Dibromochloromethane | 11 | .00 | .00 | .00 |
| | Ethylene Dibromide | 11 | .00 | .00 | .00 |
| | Methylene Chloride | 11 | .00 | .62 | .17 |
| | Tetrachloroethylene | 11 | .00 | .00 | .00 |
| | Trans-1,2-Dichloroethylene | 11 | .00 | .00 | .00 |
| | Trans-1,3-Dichloropropylene | 11 | .00 | .00 | .00 |
| | Trichloroethylene | 11 | .00 | .00 | .00 |
| | Trichlorofluoromethane | 11 | .00 | .00 | .00 |
| | Vinyl Chloride | 11 | .00 | .00 | .00 |
| 17 | Benzene | 8 | .00 | .00 | .00 |
| | Ethylbenzene | 8 | .00 | .00 | .00 |
| | Styrene | 8 | .00 | .00 | .00 |
| | Toluene | 8 | .00 | .00 | .00 |
| | m-Xylene and p-Xylene | 8 | .00 | .00 | .00 |
| | o-Xylene | 8 | .00 | .00 | .00 |
| 19 | 1-Chloronaphthalene | 11 | .00 | .00 | .00 |
| | 1-Methylnaphthalene | 11 | .00 | .00 | .00 |
| | 2,4-Dinitrotoluene | 11 | .00 | .00 | .00 |
| | 2,6-Dinitrotoluene | 11 | .00 | .00 | .00 |
| | 2-Chloronaphthalene | 11 | .00 | .00 | .00 |
| | 2-Methylnaphthalene | 11 | .00 | .00 | .00 |
| | 4-Bromophenyl Phenyl Ether | 11 | .00 | 1.33 | .73 |
| | 4-Chlorophenyl Phenyl Ether | 11 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-13 (continued)
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

LASCO
CONTROL POINT: 0100 STREAM: SOUTH POND
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | DIFFERENCE RATIO TNS | MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|
| 19 | 5-Nitro, Acenaphthene | 11 | .00 | .00 | .00 |
| | Acenaphthene | 11 | .00 | .00 | .00 |
| | Acenaphthylene | 11 | .00 | .00 | .00 |
| | Anthracene | 11 | .00 | .00 | .00 |
| | Benzo(a)anthracene | 11 | .00 | .00 | .00 |
| | Benzo(a)pyrene | 11 | .00 | .00 | .00 |
| | Benzo(b)fluoranthene | 11 | .00 | .00 | .00 |
| | Benzo(g,h,i)perylene | 11 | .00 | 1.16 | .32 |
| | Benzo(k)fluoranthene | 11 | .00 | .00 | .00 |
| | Benzobutylphthalate | 11 | .00 | .00 | .00 |
| | Bis(2-chloroethoxyl)methane | 11 | .00 | .00 | .00 |
| | Bis(2-chloroethyl)ether | 11 | .00 | .00 | .00 |
| | Bis(2-chloroisopropyl)ether | 11 | .00 | .00 | .00 |
| | Bis(2-ethylhexyl)phthalate | 11 | .00 | .00 | .00 |
| | Camphene | 11 | .00 | .00 | .00 |
| | Chrysene | 11 | .00 | .00 | .00 |
| | Di-n-butyl Phthalate | 11 | .00 | .00 | .00 |
| | Di-n-octyl Phthalate | 11 | .00 | .17 | .08 |
| | Dibenz(a,h)anthracene | 11 | .00 | .00 | .00 |
| | Diphenylamine | 11 | .00 | .00 | .00 |
| | Fluoranthene | 11 | .00 | .00 | .00 |
| | Fluorene | 11 | .00 | .00 | .00 |
| | Indeno(1,2,3-cd)pyrene | 11 | .00 | .00 | .00 |
| | Indole | 11 | .00 | .00 | .00 |
| | N-Nitrosodi-n-propylamine | 11 | .00 | .00 | .00 |
| | N-Nitrosodiphenylamine | 11 | .00 | .00 | .00 |
| | Naphthalene | 11 | .00 | .00 | .00 |
| | Perylene | 11 | .00 | .00 | .00 |
| | Phenanthrene | 11 | .00 | .00 | .00 |
| | Pyrene | 11 | .00 | .00 | .00 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,3,5-Tetrachlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,3-Trichlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,4,5-Tetrachlorobenzene | 1 | .00 | .00 | .00 |
| | 1,2,4-Trichlorobenzene | 1 | .00 | .00 | .00 |
| | 2,4,5-Trichlorotoluene | 1 | .00 | .00 | .00 |
| | Hexachlorobenzene | 1 | .00 | .00 | .00 |
| | Hexachlorobutadiene | 1 | .00 | .00 | .00 |
| | Hexachlorocyclopentadiene | 1 | .00 | .00 | .00 |
| | Hexachloroethane | 1 | .00 | .00 | .00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

APPENDIX VII

TABLE VII-13 (continued)
UNCORRECTED SAMPLE DATA
DIFFERENCE RATIO BETWEEN EFFLUENT AND UNCORRECTED DATA

LASCO
CONTROL POINT: 0100 STREAM: SOUTH POND
FOR THE PERIOD FROM 891101 TO 901031

| | | DIFFERENCE RATIO | | | |
|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE |
| 23 | Octachlorostyrene | 1 | .00 | .00 | .00 |
| | Pentachlorobenzene | 1 | .00 | .00 | .00 |
| IS1 | Iron | 1 | 5.00 | 5.00 | 5.00 |

TNS = NUMBER OF VALID SAMPLES
DIFFERENCE RATIO = AVERAGE OF THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN THE CONCENTRATION OF THE EFFLUENT SAMPLE AND ITS UNCORRECTED SAMPLE. THE DIFFERENCE RATIO IS CALCULATED BY DIVIDING THE AVERAGE BY RMDL

# APPENDIX VIII

## Travelling Blank Data

Concentration Ratio

Travelling blank concentration divided by the Regulation Method Detection Limit (RMDL).

APPENDIX VIII

TABLE VIII-1

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

ALGOMA STEEL
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | TNS | % >RMDL | CONCENTRATION RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|---|
| 2 | Cyanide Total | 19 | 32 | 1.00 | 22.00 | 2.80 |
| 4a | Ammonia plus Ammonium | 17 | 29 | .10 | 20.92 | 2.84 |
| 5a | DOC | 9 | 11 | .56 | 1.00 | .91 |
| 5b | TOC | 1 | 0 | .10 | .10 | .10 |
| 6 | Total Phosphorus | 9 | 0 | .10 | .46 | .14 |
| 9 | Aluminum | 1 | 0 | .17 | .17 | .17 |
| | Beryllium | 1 | 0 | .50 | .50 | .50 |
| | Cadmium | 1 | 0 | .00 | .00 | .00 |
| | Chromium | 2 | 0 | .25 | .75 | .50 |
| | Cobalt | 1 | 0 | .75 | .75 | .75 |
| | Copper | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Lead | 2 | 0 | .10 | .70 | .40 |
| | Molybdenum | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Nickel | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Silver | 1 | 0 | .50 | .50 | .50 |
| | Thallium | 1 | 0 | .33 | .33 | .33 |
| | Vanadium | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Zinc | 2 | 0 | .30 | .50 | .40 |
| 10 | Antimony | 1 | 0 | .00 | .00 | .00 |
| | Arsenic | 1 | 0 | .00 | .00 | .00 |
| | Selenium | 1 | 0 | .00 | .00 | .00 |
| 12 | Mercury | 1 | 0 | .10 | .10 | .10 |
| 14 | Phenolics (4AAP) | 18 | 61 | 1.00 | 10.00 | 3.22 |
| 15 | Sulphide | 9 | 11 | 1.00 | 2.00 | 1.10 |
| 16 | 1,1,2,2-Tetrachloroethane | 1 | 0 | .23 | .23 | .23 |
| | 1,1,2-Trichloroethane | 1 | 0 | .83 | .83 | .83 |
| | 1,1-Dichloroethane | 1 | 0 | .63 | .63 | .63 |
| | 1,1-Dichloroethylene | 1 | 0 | .32 | .32 | .32 |
| | 1,2-Dichlorobenzene | 1 | 0 | .50 | .50 | .50 |
| | 1,2-Dichloroethane | 1 | 0 | .63 | .63 | .63 |
| | 1,2-Dichloropropane | 1 | 0 | .67 | .67 | .67 |
| | 1,3-Dichlorobenzene | 1 | 0 | .64 | .64 | .64 |
| | 1,4-Dichlorobenzene | 1 | 0 | .53 | .53 | .53 |
| | Bromoform | 1 | 0 | .30 | .30 | .30 |
| | Bromomethane | 1 | 0 | .70 | .70 | .70 |
| | Carbon Tetrachloride | 1 | 0 | .69 | .69 | .69 |
| | Chlorobenzene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Chloroform | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Chloromethane | 1 | 0 | .89 | .89 | .89 |
| | Cis-1,3-Dichloropropylene | 1 | 0 | .79 | .79 | .79 |
| | Dibromochloromethane | 1 | 0 | .91 | .91 | .91 |
| | Ethylene Dibromide | 1 | 0 | .50 | .50 | .50 |
| | Methylene Chloride | 1 | 0 | .77 | .77 | .77 |
| | Tetrachloroethylene | 1 | 0 | .82 | .82 | .82 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-1 (continued)

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

ALGOMA STEEL
FOR THE PERIOD FROM 891101 TO 900731

| | | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | % >RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 16 | Trans-1,2-Dichloroethylene | 1 | 0 | .79 | .79 | .79 |
| | Trans-1,3-Dichloropropylene | 1 | 0 | .36 | .36 | .36 |
| | Trichloroethylene | 1 | 0 | .47 | .47 | .47 |
| | Trichlorofluoromethane | 1 | 0 | .50 | .50 | .50 |
| | Vinyl Chloride | 1 | 0 | .83 | .83 | .83 |
| 17 | Benzene | 8 | 13 | 1.00 | 1.74 | 1.09 |
| | Ethylbenzene | 1 | 0 | .83 | .83 | .83 |
| | Styrene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Toluene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | m-Xylene and p-Xylene | 1 | 0 | .91 | .91 | .91 |
| | o-Xylene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| 19 | 1-Chloronaphthalene | 1 | 0 | .52 | .52 | .52 |
| | 1-Methylnaphthalene | 1 | 0 | .66 | .66 | .66 |
| | 2,4-Dinitrotoluene | 1 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 1 | 0 | .43 | .43 | .43 |
| | 2-Chloronaphthalene | 1 | 0 | .61 | .61 | .61 |
| | 2-Methylnaphthalene | 1 | 0 | .91 | .91 | .91 |
| | 4-Bromophenyl Phenyl Ether | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 1 | 0 | .78 | .78 | .78 |
| | 5-Nitro, Acenaphthene | 1 | 0 | .88 | .88 | .88 |
| | Acenaphthene | 1 | 0 | .77 | .77 | .77 |
| | Acenaphthylene | 1 | 0 | .50 | .50 | .50 |
| | Anthracene | 1 | 0 | .67 | .67 | .67 |
| | Benzo(a)anthracene | 1 | 0 | .60 | .60 | .60 |
| | Benzo(a)pyrene | 9 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzo(b)fluoranthene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzo(g,h,i)perylene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzo(k)fluoranthene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzobutylphthalate | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Bis(2-chloroethoxyl)methane | 1 | 0 | .89 | .89 | .89 |
| | Bis(2-chloroethyl)ether | 1 | 0 | .41 | .41 | .41 |
| | Bis(2-chloroisopropyl)ether | 1 | 0 | .50 | .50 | .50 |
| | Bis(2-ethylhexyl)phthalate | 1 | 0 | .59 | .59 | .59 |
| | Camphene | 1 | 0 | .77 | .77 | .77 |
| | Chrysene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Di-n-butyl Phthalate | 1 | 0 | .32 | .32 | .32 |
| | Di-n-octyl Phthalate | 1 | 0 | .30 | .30 | .30 |
| | Dibenz(a,h)anthracene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Diphenylamine | 1 | 0 | .57 | .57 | .57 |
| | Fluoranthene | 1 | 0 | .75 | .75 | .75 |
| | Fluorene | 1 | 0 | .71 | .71 | .71 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-1 (continued)

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

ALGOMA STEEL
FOR THE PERIOD FROM 891101 TO 900731

| | | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | % >RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Indeno(1,2,3-cd)pyrene | 1 | 0 | .85 | .85 | .85 |
| | Indole | 1 | 0 | .53 | .53 | .53 |
| | N-Nitrosodi-n-propylamine | 1 | 0 | .68 | .68 | .68 |
| | N-Nitrosodiphenylamine | 1 | 0 | .57 | .57 | .57 |
| | Naphthalene | 9 | 33 | .69 | 2.50 | 1.18 |
| | Perylene | 1 | 0 | .73 | .73 | .73 |
| | Phenanthrene | 1 | 0 | .75 | .75 | .75 |
| | Pyrene | 1 | 0 | .75 | .75 | .75 |
| 20 | 2,3,4,5-Tetrachlorophenol | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,4,6-Tetrachlorophenol | 1 | 0 | .39 | .39 | .39 |
| | 2,3,4-Trichlorophenol | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,5,6-Tetrachlorophenol | 1 | 0 | .69 | .69 | .69 |
| | 2,3,5-Trichlorophenol | 1 | 0 | .85 | .85 | .85 |
| | 2,4,5-Trichlorophenol | 1 | 0 | .77 | .77 | .77 |
| | 2,4,6-Trichlorophenol | 1 | 0 | .69 | .69 | .69 |
| | 2,4-Dichlorophenol | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,4-Dimethylphenol | 1 | 0 | .59 | .59 | .59 |
| | 2,4-Dinitrophenol | 1 | 0 | .43 | .43 | .43 |
| | 2,6-Dichlorophenol | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 2-Chlorophenol | 1 | 0 | .49 | .49 | .49 |
| | 4,6-Dinitro-o-cresol | 1 | 0 | .50 | .50 | .50 |
| | 4-Chloro-3-methylphenol | 1 | 0 | .73 | .73 | .73 |
| | 4-Nitrophenol | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorophenol | 1 | 0 | .38 | .38 | .38 |
| | Phenol | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | m-Cresol | 1 | 0 | .68 | .68 | .68 |
| | o-Cresol | 1 | 0 | .62 | .62 | .62 |
| | p-Cresol | 1 | 0 | .63 | .63 | .63 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,3,5-Tetrachlorobenzene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,3-Trichlorobenzene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,4,5-Tetrachlorobenzene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,4-Trichlorobenzene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,4,5-Trichlorotoluene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachlorobenzene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachlorobutadiene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachlorocyclopentadiene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachloroethane | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Octachlorostyrene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorobenzene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| 25 | Oil and Grease | 15 | 7 | .10 | 1.00 | .54 |
| IS1 | Iron | 7 | 71 | .25 | 1.85 | 1.25 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-2

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

DOFASCO INC.
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | TNS | % >RMDL | CONCENTRATION RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|---|
| 2 | Cyanide Total | 25 | 0 | .00 | .80 | .40 |
| 4a | Ammonia plus Ammonium | 25 | 52 | .10 | 1.36 | .78 |
| 5a | DOC | 9 | 44 | .80 | 10.20 | 2.29 |
| 6 | Total Phosphorus | 25 | 0 | .10 | .80 | .24 |
| 7 | Specific Conductance | 12 | 0 | .40 | .80 | .63 |
| 9 | Aluminum | 2 | 100 | 3.33 | 4.00 | 3.67 |
| | Beryllium | 2 | 0 | .20 | .20 | .20 |
| | Cadmium | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Chromium | 13 | 8 | .10 | 1.50 | .45 |
| | Cobalt | 2 | 0 | .50 | .50 | .50 |
| | Copper | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Lead | 3 | 0 | .10 | 1.00 | .70 |
| | Molybdenum | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Nickel | 2 | 0 | .50 | .50 | .50 |
| | Silver | 2 | 0 | .33 | .33 | .33 |
| | Thallium | 2 | 50 | .67 | 1.33 | 1.00 |
| | Vanadium | 2 | 0 | .33 | .33 | .33 |
| | Zinc | 13 | 23 | .10 | 5.00 | 1.00 |
| 10 | Antimony | 2 | 0 | .60 | .60 | .60 |
| | Arsenic | 2 | 0 | .60 | .60 | .60 |
| | Selenium | 2 | 0 | .60 | .60 | .60 |
| 12 | Mercury | 2 | 0 | .19 | .19 | .19 |
| 14 | Phenolics (4AAP) | 23 | 9 | .10 | 1.50 | .69 |
| 16 | 1,1,2,2-Tetrachloroethane | 2 | 0 | .10 | .10 | .10 |
| | 1,1,2-Trichloroethane | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,1-Dichloroethane | 2 | 0 | .63 | .63 | .63 |
| | 1,1-Dichloroethylene | 2 | 0 | .14 | .14 | .14 |
| | 1,2-Dichlorobenzene | 2 | 0 | .29 | .29 | .29 |
| | 1,2-Dichloroethane | 2 | 0 | .50 | .50 | .50 |
| | 1,2-Dichloropropane | 2 | 0 | .56 | .56 | .56 |
| | 1,3-Dichlorobenzene | 2 | 0 | .27 | .27 | .27 |
| | 1,4-Dichlorobenzene | 2 | 0 | .12 | .12 | .12 |
| | Bromoform | 2 | 0 | .10 | .10 | .10 |
| | Bromomethane | 2 | 0 | .65 | .65 | .65 |
| | Carbon Tetrachloride | 2 | 0 | .23 | .23 | .23 |
| | Chlorobenzene | 2 | 0 | .86 | .86 | .86 |
| | Chloroform | 2 | 0 | .57 | .57 | .57 |
| | Chloromethane | 2 | 0 | .62 | .62 | .62 |
| | Cis-1,3-Dichloropropylene | 2 | 0 | .50 | .50 | .50 |
| | Dibromochloromethane | 2 | 0 | .36 | .36 | .36 |
| | Ethylene Dibromide | 2 | 0 | .60 | .60 | .60 |
| | Methylene Chloride | 2 | 0 | .23 | .23 | .23 |
| | Tetrachloroethylene | 2 | 0 | .18 | .18 | .18 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-2 (continued)

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

DOFASCO INC.
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | TNS | % >RMDL | CONCENTRATION RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|---|
| 16 | Trans-1,2-Dichloroethylene | 2 | 0 | .29 | .29 | .29 |
| | Trans-1,3-Dichloropropylene | 2 | 0 | .79 | .79 | .79 |
| | Trichloroethylene | 2 | 0 | .16 | .16 | .16 |
| | Trichlorofluoromethane | 2 | 0 | .30 | .30 | .30 |
| | Vinyl Chloride | 2 | 0 | .72 | .72 | .72 |
| 17 | Benzene | 14 | 0 | .40 | .40 | .40 |
| | Ethylbenzene | 5 | 0 | .67 | .67 | .67 |
| | Styrene | 5 | 0 | .80 | .80 | .80 |
| | Toluene | 5 | 0 | .80 | .80 | .80 |
| | m-Xylene and p-Xylene | 5 | 0 | .45 | .45 | .45 |
| | o-Xylene | 5 | 0 | .80 | .80 | .80 |
| 19 | 1-Chloronaphthalene | 5 | 0 | .32 | .32 | .32 |
| | 1-Methylnaphthalene | 5 | 0 | .69 | .69 | .69 |
| | 2,4-Dinitrotoluene | 5 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 5 | 0 | .86 | .86 | .86 |
| | 2-Chloronaphthalene | 5 | 0 | .50 | .50 | .50 |
| | 2-Methylnaphthalene | 5 | 0 | .68 | .68 | .68 |
| | 4-Bromophenyl Phenyl Ether | 5 | 0 | 1.00 | 1.00 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 5 | 0 | 1.00 | 1.00 | 1.00 |
| | 5-Nitro, Acenaphthene | 5 | 0 | .42 | .42 | .42 |
| | Acenaphthene | 5 | 0 | .54 | .54 | .54 |
| | Acenaphthylene | 5 | 0 | .29 | .29 | .29 |
| | Anthracene | 5 | 0 | .17 | .17 | .17 |
| | Benzo(a)anthracene | 5 | 0 | .40 | .40 | .40 |
| | Benzo(a)pyrene | 14 | 0 | .83 | .83 | .83 |
| | Benzo(b)fluoranthene | 5 | 0 | .57 | .57 | .57 |
| | Benzo(g,h,i)perylene | 5 | 0 | .57 | .57 | .57 |
| | Benzo(k)fluoranthene | 5 | 0 | .57 | .57 | .57 |
| | Benzobutylphthalate | 5 | 0 | 1.00 | 1.00 | 1.00 |
| | Bis(2-chloroethoxyl)methane | 5 | 0 | .37 | .37 | .37 |
| | Bis(2-chloroethyl)ether | 5 | 0 | .41 | .41 | .41 |
| | Bis(2-chloroisopropyl)ether | 5 | 0 | .68 | .68 | .68 |
| | Bis(2-ethylhexyl)phthalate | 5 | 20 | .64 | 10.45 | 2.61 |
| | Camphene | 5 | 0 | .29 | .29 | .29 |
| | Chrysene | 5 | 0 | 1.00 | 1.00 | 1.00 |
| | Di-n-butyl Phthalate | 5 | 0 | .29 | .29 | .29 |
| | Di-n-octyl Phthalate | 5 | 0 | .40 | .50 | .42 |
| | Dibenz(a,h)anthracene | 5 | 0 | .31 | .31 | .31 |
| | Diphenylamine | 5 | 0 | .14 | .14 | .14 |
| | Fluoranthene | 5 | 0 | .50 | .50 | .50 |
| | Fluorene | 5 | 0 | .18 | .18 | .18 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-2 (continued)

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

DOFASCO INC.
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | TNS | % >RMDL | CONCENTRATION RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|---|
| 19 | Indeno(1,2,3-cd)pyrene | 5 | 0 | .46 | .46 | .46 |
| | Indole | 5 | 0 | .63 | .63 | .63 |
| | N-Nitrosodi-n-propylamine | 5 | 0 | .68 | .68 | .68 |
| | N-Nitrosodiphenylamine | 5 | 0 | .14 | .14 | .14 |
| | Naphthalene | 14 | 0 | .19 | .19 | .19 |
| | Perylene | 5 | 0 | .20 | .20 | .20 |
| | Phenanthrene | 5 | 0 | .75 | .75 | .75 |
| | Pyrene | 5 | 0 | .75 | .75 | .75 |
| 20 | 2,3,4,5-Tetrachlorophenol | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,4,6-Tetrachlorophenol | 2 | 0 | .25 | .25 | .25 |
| | 2,3,4-Trichlorophenol | 2 | 0 | .83 | .83 | .83 |
| | 2,3,5,6-Tetrachlorophenol | 2 | 0 | .44 | .44 | .44 |
| | 2,3,5-Trichlorophenol | 2 | 0 | .31 | .31 | .31 |
| | 2,4,5-Trichlorophenol | 2 | 0 | .46 | .46 | .46 |
| | 2,4,6-Trichlorophenol | 2 | 0 | .92 | .92 | .92 |
| | 2,4-Dichlorophenol | 2 | 0 | .71 | .71 | .71 |
| | 2,4-Dimethylphenol | 2 | 0 | .23 | .23 | .23 |
| | 2,4-Dinitrophenol | 2 | 0 | .11 | .11 | .11 |
| | 2,6-Dichlorophenol | 2 | 0 | .55 | .55 | .55 |
| | 2-Chlorophenol | 2 | 0 | .73 | .73 | .73 |
| | 4,6-Dinitro-o-cresol | 2 | 0 | .10 | .10 | .10 |
| | 4-Chloro-3-methylphenol | 2 | 0 | .93 | .93 | .93 |
| | 4-Nitrophenol | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorophenol | 2 | 0 | .85 | .85 | .85 |
| | Phenol | 2 | 0 | .46 | .46 | .46 |
| | m-Cresol | 2 | 0 | .88 | .88 | .88 |
| | o-Cresol | 2 | 0 | .46 | .46 | .46 |
| | p-Cresol | 2 | 0 | 1.00 | 1.00 | 1.00 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 2 | 0 | .90 | .90 | .90 |
| | 1,2,3,5-Tetrachlorobenzene | 2 | 0 | .50 | .50 | .50 |
| | 1,2,3-Trichlorobenzene | 2 | 0 | .90 | .90 | .90 |
| | 1,2,4,5-Tetrachlorobenzene | 2 | 0 | .50 | .50 | .50 |
| | 1,2,4-Trichlorobenzene | 2 | 0 | .60 | .60 | .60 |
| | 2,4,5-Trichlorotoluene | 2 | 0 | .30 | .30 | .30 |
| | Hexachlorobenzene | 2 | 50 | .30 | 10.00 | 5.10 |
| | Hexachlorobutadiene | 2 | 0 | .20 | .20 | .20 |
| | Hexachlorocyclopentadiene | 2 | 0 | .50 | .50 | .50 |
| | Hexachloroethane | 2 | 0 | .20 | .20 | .20 |
| | Octachlorostyrene | 2 | 0 | .30 | .30 | .30 |
| | Pentachlorobenzene | 2 | 50 | .20 | 1.00 | .60 |
| 25 | Oil and Grease | 24 | 8 | .20 | 1.20 | .88 |
| IS1 | Iron | 13 | 69 | .50 | 15.50 | 6.40 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-3

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

STELCO STEEL HILTON WORKS
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | TNS | % >RMDL | CONCENTRATION RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|---|
| 2 | Cyanide Total | 10 | 20 | .40 | 1.20 | .60 |
| 4a | Ammonia plus Ammonium | 10 | 0 | .16 | .56 | .42 |
| 5a | DOC | 10 | 60 | .70 | 13.60 | 3.92 |
| 6 | Total Phosphorus | 10 | 0 | .10 | .50 | .34 |
| 7 | Specific Conductance | 9 | 0 | .84 | .84 | .84 |
| 9 | Aluminum | 1 | 100 | 1.13 | 1.13 | 1.13 |
| | Beryllium | 1 | 0 | .60 | .60 | .60 |
| | Cadmium | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Chromium | 10 | 10 | .15 | 4.65 | .70 |
| | Cobalt | 1 | 0 | .20 | .20 | .20 |
| | Copper | 1 | 100 | 5.00 | 5.00 | 5.00 |
| | Lead | 10 | 0 | .20 | .20 | .20 |
| | Molybdenum | 1 | 0 | .30 | .30 | .30 |
| | Nickel | 1 | 0 | .45 | .45 | .45 |
| | Silver | 1 | 0 | .23 | .23 | .23 |
| | Thallium | 1 | 0 | .10 | .10 | .10 |
| | Vanadium | 1 | 0 | .13 | .13 | .13 |
| | Zinc | 10 | 40 | .40 | 3.00 | 1.40 |
| 10 | Antimony | 1 | 0 | .40 | .40 | .40 |
| | Arsenic | 1 | 0 | .40 | .40 | .40 |
| | Selenium | 1 | 0 | .20 | .20 | .20 |
| 12 | Mercury | 1 | 0 | .19 | .19 | .19 |
| 14 | Phenolics (4AAP) | 9 | 100 | 1.15 | 1.15 | 1.15 |
| 16 | 1,1,2,2-Tetrachloroethane | 1 | 0 | .10 | .10 | .10 |
| | 1,1,2-Trichloroethane | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,1-Dichloroethane | 1 | 0 | .63 | .63 | .63 |
| | 1,1-Dichloroethylene | 1 | 0 | .14 | .14 | .14 |
| | 1,2-Dichlorobenzene | 1 | 0 | .29 | .29 | .29 |
| | 1,2-Dichloroethane | 1 | 0 | .50 | .50 | .50 |
| | 1,2-Dichloropropane | 1 | 0 | .56 | .56 | .56 |
| | 1,3-Dichlorobenzene | 1 | 0 | .27 | .27 | .27 |
| | 1,4-Dichlorobenzene | 1 | 0 | .12 | .12 | .12 |
| | Bromoform | 1 | 0 | .10 | .10 | .10 |
| | Bromomethane | 1 | 0 | .65 | .65 | .65 |
| | Carbon Tetrachloride | 1 | 0 | .23 | .23 | .23 |
| | Chlorobenzene | 1 | 0 | .86 | .86 | .86 |
| | Chloroform | 1 | 0 | .57 | .57 | .57 |
| | Chloromethane | 1 | 0 | .62 | .62 | .62 |
| | Cis-1,3-Dichloropropylene | 1 | 0 | .50 | .50 | .50 |
| | Dibromochloromethane | 1 | 0 | .36 | .36 | .36 |
| | Ethylene Dibromide | 1 | 0 | .60 | .60 | .60 |
| | Methylene Chloride | 1 | 0 | .23 | .23 | .23 |
| | Tetrachloroethylene | 1 | 0 | .18 | .18 | .18 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-3 (continued)

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

STELCO STEEL HILTON WORKS
FOR THE PERIOD FROM 891101 TO 900731

| | | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | % >RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 16 | Trans-1,2-Dichloroethylene | 1 | 0 | .29 | .29 | .29 |
| | Trans-1,3-Dichloropropylene | 1 | 0 | .79 | .79 | .79 |
| | Trichloroethylene | 1 | 0 | .16 | .16 | .16 |
| | Trichlorofluoromethane | 1 | 0 | .30 | .30 | .30 |
| | Vinyl Chloride | 1 | 0 | .72 | .72 | .72 |
| 17 | Benzene | 9 | 11 | .40 | 2.80 | .67 |
| | Ethylbenzene | 1 | 0 | .67 | .67 | .67 |
| | Styrene | 1 | 0 | .80 | .80 | .80 |
| | Toluene | 1 | 0 | .80 | .80 | .80 |
| | m-Xylene and p-Xylene | 1 | 0 | .45 | .45 | .45 |
| | o-Xylene | 1 | 0 | .80 | .80 | .80 |
| 19 | 1-Chloronaphthalene | 1 | 0 | .32 | .32 | .32 |
| | 1-Methylnaphthalene | 1 | 0 | .69 | .69 | .69 |
| | 2,4-Dinitrotoluene | 1 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 1 | 0 | .86 | .86 | .86 |
| | 2-Chloronaphthalene | 1 | 0 | .50 | .50 | .50 |
| | 2-Methylnaphthalene | 1 | 0 | .68 | .68 | .68 |
| | 4-Bromophenyl Phenyl Ether | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 5-Nitro, Acenaphthene | 1 | 0 | .42 | .42 | .42 |
| | Acenaphthene | 1 | 0 | .54 | .54 | .54 |
| | Acenaphthylene | 1 | 0 | .29 | .29 | .29 |
| | Anthracene | 1 | 0 | .17 | .17 | .17 |
| | Benzo(a)anthracene | 1 | 0 | .40 | .40 | .40 |
| | Benzo(a)pyrene | 9 | 11 | .83 | 1.00 | .85 |
| | Benzo(b)fluoranthene | 1 | 0 | .57 | .57 | .57 |
| | Benzo(g,h,i)perylene | 1 | 0 | .57 | .57 | .57 |
| | Benzo(k)fluoranthene | 1 | 0 | .57 | .57 | .57 |
| | Benzobutylphthalate | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Bis(2-chloroethoxyl)methane | 1 | 0 | .37 | .37 | .37 |
| | Bis(2-chloroethyl)ether | 1 | 0 | .41 | .41 | .41 |
| | Bis(2-chloroisopropyl)ether | 1 | 0 | .68 | .68 | .68 |
| | Bis(2-ethylhexyl)phthalate | 1 | 0 | .64 | .64 | .64 |
| | Camphene | 1 | 0 | .29 | .29 | .29 |
| | Chrysene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Di-n-butyl Phthalate | 1 | 0 | .29 | .29 | .29 |
| | Dibenz(a,h)anthracene | 1 | 0 | .31 | .31 | .31 |
| | Diphenylamine | 1 | 0 | .14 | .14 | .14 |
| | Fluoranthene | 1 | 0 | .50 | .50 | .50 |
| | Fluorene | 1 | 0 | .18 | .18 | .18 |
| | Indeno(1,2,3-cd)pyrene | 1 | 0 | .46 | .46 | .46 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-3 (continued)

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

STELCO STEEL HILTON WORKS
FOR THE PERIOD FROM 891101 TO 900731

| | | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | % >RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Indole | 1 | 0 | .63 | .63 | .63 |
| | N-Nitrosodi-n-propylamine | 1 | 0 | .68 | .68 | .68 |
| | N-Nitrosodiphenylamine | 1 | 0 | .14 | .14 | .14 |
| | Naphthalene | 9 | 11 | .19 | 1.00 | .28 |
| | Perylene | 1 | 0 | .20 | .20 | .20 |
| | Phenanthrene | 1 | 0 | .75 | .75 | .75 |
| | Pyrene | 1 | 0 | .75 | .75 | .75 |
| 20 | 2,3,4,5-Tetrachlorophenol | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,4,6-Tetrachlorophenol | 1 | 0 | .25 | .25 | .25 |
| | 2,3,4-Trichlorophenol | 1 | 0 | .83 | .83 | .83 |
| | 2,3,5,6-Tetrachlorophenol | 1 | 0 | .44 | .44 | .44 |
| | 2,3,5-Trichlorophenol | 1 | 0 | .31 | .31 | .31 |
| | 2,4,5-Trichlorophenol | 1 | 0 | .46 | .46 | .46 |
| | 2,4,6-Trichlorophenol | 1 | 0 | .92 | .92 | .92 |
| | 2,4-Dichlorophenol | 1 | 0 | .71 | .71 | .71 |
| | 2,4-Dimethylphenol | 1 | 0 | .23 | .23 | .23 |
| | 2,4-Dinitrophenol | 1 | 0 | .11 | .11 | .11 |
| | 2,6-Dichlorophenol | 1 | 0 | .55 | .55 | .55 |
| | 2-Chlorophenol | 1 | 0 | .73 | .73 | .73 |
| | 4,6-Dinitro-o-cresol | 1 | 0 | .10 | .10 | .10 |
| | 4-Chloro-3-methylphenol | 1 | 0 | .93 | .93 | .93 |
| | 4-Nitrophenol | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorophenol | 1 | 0 | .85 | .85 | .85 |
| | Phenol | 1 | 0 | .46 | .46 | .46 |
| | m-Cresol | 1 | 0 | .88 | .88 | .88 |
| | o-Cresol | 1 | 0 | .46 | .46 | .46 |
| | p-Cresol | 1 | 0 | 1.00 | 1.00 | 1.00 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 1 | 0 | .90 | .90 | .90 |
| | 1,2,3,5-Tetrachlorobenzene | 1 | 0 | .50 | .50 | .50 |
| | 1,2,3-Trichlorobenzene | 1 | 0 | .90 | .90 | .90 |
| | 1,2,4,5-Tetrachlorobenzene | 1 | 0 | .50 | .50 | .50 |
| | 1,2,4-Trichlorobenzene | 1 | 0 | .60 | .60 | .60 |
| | 2,4,5-Trichlorotoluene | 1 | 0 | .30 | .30 | .30 |
| | Hexachlorobenzene | 1 | 0 | .90 | .90 | .90 |
| | Hexachlorobutadiene | 1 | 0 | .20 | .20 | .20 |
| | Hexachlorocyclopentadiene | 1 | 0 | .50 | .50 | .50 |
| | Hexachloroethane | 1 | 0 | .20 | .20 | .20 |
| | Octachlorostyrene | 1 | 0 | .30 | .30 | .30 |
| | Pentachlorobenzene | 1 | 0 | .20 | .20 | .20 |
| 25 | Oil and Grease | 10 | 40 | .96 | 2.00 | 1.13 |
| IS1 | Iron | 10 | 100 | 2.50 | 27.00 | 8.35 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-4

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

STELCO STEEL LAKE ERIE WORKS
FOR THE PERIOD FROM B91101 TO 900731

| ATG | PARAMETER | TNS | % >RMDL | CONCENTRATION RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|---|
| 2 | Cyanide Total | 17 | 35 | .40 | 4.00 | 1.00 |
| 4a | Ammonia plus Ammonium | 16 | 0 | .10 | .48 | .20 |
| 5a | DOC | 9 | 11 | .40 | 10.00 | 1.78 |
| 6 | Total Phosphorus | 17 | 12 | .50 | 4.50 | 1.02 |
| 7 | Specific Conductance | 9 | 33 | .10 | 6.00 | 1.90 |
| 8 | Total Suspended Solids | 8 | 0 | .94 | .94 | .94 |
| | Volatile Suspended Solids | 8 | 0 | .10 | .10 | .10 |
| 9 | Aluminum | 3 | 33 | .37 | 6.13 | 2.50 |
| | Beryllium | 3 | 33 | .60 | 1.00 | .70 |
| | Cadmium | 9 | 33 | 1.00 | 1.50 | 1.00 |
| | Chromium | 11 | 0 | .20 | .45 | .25 |
| | Cobalt | 3 | 0 | .20 | 1.00 | .50 |
| | Copper | 3 | 100 | 2.00 | 6.30 | 4.80 |
| | Lead | 11 | 9 | .20 | 1.13 | .37 |
| | Molybdenum | 3 | 0 | .30 | 1.00 | .60 |
| | Nickel | 3 | 33 | .75 | 1.30 | 1.00 |
| | Silver | 3 | 0 | .10 | 1.00 | .40 |
| | Thallium | 3 | 0 | .10 | 1.00 | .40 |
| | Vanadium | 3 | 33 | .13 | 1.90 | 1.00 |
| | Zinc | 11 | 45 | .90 | 4.00 | 1.70 |
| 10 | Antimony | 3 | 33 | .40 | 1.40 | 1.00 |
| | Arsenic | 3 | 0 | .40 | 1.00 | .60 |
| | Selenium | 3 | 0 | .20 | 1.00 | .40 |
| 12 | Mercury | 2 | 50 | .10 | 1.20 | .65 |
| 14 | Phenolics (4AAP) | 17 | 6 | .50 | 1.20 | .81 |
| 16 | 1,1,2,2-Tetrachloroethane | 1 | 0 | .10 | .10 | .10 |
| | 1,1,2-Trichloroethane | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,1-Dichloroethane | 1 | 0 | .63 | .63 | .63 |
| | 1,1-Dichloroethylene | 1 | 0 | .14 | .14 | .14 |
| | 1,2-Dichlorobenzene | 1 | 0 | .29 | .29 | .29 |
| | 1,2-Dichloroethane | 1 | 0 | .50 | .50 | .50 |
| | 1,2-Dichloropropane | 1 | 0 | .56 | .56 | .56 |
| | 1,3-Dichlorobenzene | 1 | 0 | .27 | .27 | .27 |
| | 1,4-Dichlorobenzene | 1 | 0 | .12 | .12 | .12 |
| | Bromoform | 1 | 0 | .10 | .10 | .10 |
| | Bromomethane | 1 | 0 | .65 | .65 | .65 |
| | Carbon Tetrachloride | 1 | 0 | .23 | .23 | .23 |
| | Chlorobenzene | 1 | 0 | .86 | .86 | .86 |
| | Chloroform | 1 | 100 | 5.43 | 5.43 | 5.43 |
| | Chloromethane | 1 | 0 | .62 | .62 | .62 |
| | Cis-1,3-Dichloropropylene | 1 | 0 | .50 | .50 | .50 |
| | Dibromochloromethane | 1 | 0 | .73 | .73 | .73 |
| | Ethylene Dibromide | 1 | 0 | .60 | .60 | .60 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMOL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-4 (continued)

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

STELCO STEEL LAKE ERIE WORKS
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | TNS | % >RMDL | CONCENTRATION RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|---|
| 16 | Methylene Chloride | 1 | 0 | .23 | .23 | .23 |
| | Tetrachloroethylene | 1 | 0 | .18 | .18 | .18 |
| | Trans-1,2-Dichloroethylene | 1 | 0 | .29 | .29 | .29 |
| | Trans-1,3-Dichloropropylene | 1 | 0 | .79 | .79 | .79 |
| | Trichloroethylene | 1 | 0 | .16 | .16 | .16 |
| | Trichlorofluoromethane | 1 | 0 | .30 | .30 | .30 |
| | Vinyl Chloride | 1 | 0 | .72 | .72 | .72 |
| 17 | Benzene | 10 | 0 | .40 | .40 | .40 |
| | Ethylbenzene | 2 | 0 | .67 | .67 | .67 |
| | Styrene | 2 | 0 | .80 | .80 | .80 |
| | Toluene | 2 | 0 | .80 | .80 | .80 |
| | m-Xylene and p-Xylene | 2 | 0 | .45 | .45 | .45 |
| | o-Xylene | 2 | 0 | .80 | .80 | .80 |
| 19 | 1-Chloronaphthalene | 2 | 0 | .32 | .32 | .32 |
| | 1-Methylnaphthalene | 2 | 0 | .69 | .69 | .69 |
| | 2,4-Dinitrotoluene | 2 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 2 | 0 | .86 | .86 | .86 |
| | 2-Chloronaphthalene | 2 | 0 | .50 | .50 | .50 |
| | 2-Methylnaphthalene | 2 | 0 | .68 | .68 | .68 |
| | 4-Bromophenyl Phenyl Ether | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | 5-Nitro, Acenaphthene | 2 | 0 | .42 | .42 | .42 |
| | Acenaphthene | 2 | 0 | .54 | .54 | .54 |
| | Acenaphthylene | 2 | 0 | .29 | .29 | .29 |
| | Anthracene | 2 | 0 | .17 | .17 | .17 |
| | Benzo(a)anthracene | 2 | 0 | .40 | .40 | .40 |
| | Benzo(a)pyrene | 10 | 0 | .83 | .83 | .83 |
| | Benzo(b)fluoranthene | 2 | 0 | .57 | .57 | .57 |
| | Benzo(g,h,i)perylene | 2 | 0 | .57 | .57 | .57 |
| | Benzo(k)fluoranthene | 2 | 0 | .57 | .57 | .57 |
| | Benzobutylphthalate | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Bis(2-chloroethoxyl)methane | 2 | 0 | .37 | .37 | .37 |
| | Bis(2-chloroethyl)ether | 2 | 0 | .41 | .41 | .41 |
| | Bis(2-chloroisopropyl)ether | 2 | 0 | .68 | .68 | .68 |
| | Bis(2-ethylhexyl)phthalate | 2 | 0 | .64 | .64 | .64 |
| | Camphene | 2 | 0 | .29 | .29 | .29 |
| | Chrysene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Di-n-butyl Phthalate | 2 | 0 | .29 | .29 | .29 |
| | Di-n-octyl Phthalate | 2 | 0 | .40 | .40 | .40 |
| | Dibenz(a,h)anthracene | 2 | 0 | .31 | .31 | .31 |
| | Diphenylamine | 2 | 0 | .14 | .14 | .14 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-4 (continued)

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

STELCO STEEL LAKE ERIE WORKS
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | TNS | % >RMDL | CONCENTRATION RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|---|
| 19 | Fluoranthene | 2 | 0 | .50 | .50 | .50 |
| | Fluorene | 2 | 0 | .18 | .18 | .18 |
| | Indeno(1,2,3-cd)pyrene | 2 | 0 | .46 | .46 | .46 |
| | Indole | 2 | 0 | .63 | .63 | .63 |
| | N-Nitrosodi-n-propylamine | 2 | 0 | .68 | .68 | .68 |
| | N-Nitrosodiphenylamine | 2 | 0 | .14 | .14 | .14 |
| | Naphthalene | 10 | 0 | .19 | .19 | .19 |
| | Perylene | 2 | 0 | .20 | .20 | .20 |
| | Phenanthrene | 2 | 0 | .75 | .75 | .75 |
| | Pyrene | 2 | 0 | .75 | .75 | .75 |
| 20 | 2,3,4,5-Tetrachlorophenol | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,3,4,6-Tetrachlorophenol | 1 | 0 | .25 | .25 | .25 |
| | 2,3,4-Trichlorophenol | 1 | 0 | .83 | .83 | .83 |
| | 2,3,5,6-Tetrachlorophenol | 1 | 0 | .44 | .44 | .44 |
| | 2,3,5-Trichlorophenol | 1 | 0 | .31 | .31 | .31 |
| | 2,4,5-Trichlorophenol | 1 | 0 | .46 | .46 | .46 |
| | 2,4,6-Trichlorophenol | 1 | 0 | .92 | .92 | .92 |
| | 2,4-Dichlorophenol | 1 | 0 | .71 | .71 | .71 |
| | 2,4-Dimethylphenol | 1 | 0 | .23 | .23 | .23 |
| | 2,4-Dinitrophenol | 1 | 0 | .11 | .11 | .11 |
| | 2,6-Dichlorophenol | 1 | 0 | .55 | .55 | .55 |
| | 2-Chlorophenol | 1 | 0 | .73 | .73 | .73 |
| | 4,6-Dinitro-o-cresol | 1 | 0 | .10 | .10 | .10 |
| | 4-Chloro-3-methylphenol | 1 | 0 | .93 | .93 | .93 |
| | 4-Nitrophenol | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorophenol | 1 | 0 | .85 | .85 | .85 |
| | Phenol | 1 | 0 | .46 | .46 | .46 |
| | m-Cresol | 1 | 0 | .88 | .88 | .88 |
| | o-Cresol | 1 | 0 | .46 | .46 | .46 |
| | p-Cresol | 1 | 0 | 1.00 | 1.00 | 1.00 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 1 | 0 | .90 | .90 | .90 |
| | 1,2,3,5-Tetrachlorobenzene | 1 | 0 | .50 | .50 | .50 |
| | 1,2,3-Trichlorobenzene | 1 | 0 | .90 | .90 | .90 |
| | 1,2,4,5-Tetrachlorobenzene | 1 | 0 | .50 | .50 | .50 |
| | 1,2,4-Trichlorobenzene | 1 | 0 | .60 | .60 | .60 |
| | 2,4,5-Trichlorotoluene | 1 | 100 | 1.00 | 1.00 | 1.00 |
| | Hexachlorobenzene | 1 | 0 | .40 | .40 | .40 |
| | Hexachlorobutadiene | 1 | 0 | .20 | .20 | .20 |
| | Hexachlorocyclopentadiene | 1 | 0 | .50 | .50 | .50 |
| | Hexachloroethane | 1 | 0 | .20 | .20 | .20 |
| | Octachlorostyrene | 1 | 0 | .30 | .30 | .30 |
| | Pentachlorobenzene | 1 | 0 | .20 | .20 | .20 |
| 25 | Oil and Grease | 17 | 35 | 1.00 | 1.80 | 1.13 |
| IS1 | Iron | 2 | 50 | .80 | 2.00 | 1.40 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-5

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

ATLAS SPECIALTY STEEL
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | TNS | % >RMDL | CONCENTRATION RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|---|
| 5a | DOC | 11 | 0 | 1.00 | 1.00 | 1.00 |
| 5b | TOC | 1 | 0 | .10 | .10 | .10 |
| 6 | Total Phosphorus | 11 | 0 | .10 | .10 | .10 |
| 7 | Specific Conductance | 10 | 20 | .50 | 2.12 | .93 |
| 8 | Total Suspended Solids | 5 | 0 | .40 | .40 | .40 |
| | Volatile Suspended Solids | 5 | 0 | .50 | .50 | .50 |
| 9 | Aluminum | 2 | 0 | .23 | .53 | .37 |
| | Beryllium | 2 | 0 | .50 | .50 | .50 |
| | Cadmium | 2 | 0 | .00 | .50 | .50 |
| | Chromium | 12 | 0 | .25 | .75 | .40 |
| | Cobalt | 2 | 0 | .20 | .75 | .45 |
| | Copper | 2 | 0 | .30 | 1.00 | .70 |
| | Lead | 2 | 0 | .10 | .70 | .40 |
| | Molybdenum | 2 | 0 | .25 | 1.00 | .60 |
| | Nickel | 12 | 0 | .20 | 1.00 | .55 |
| | Silver | 2 | 0 | .13 | .50 | .30 |
| | Thallium | 2 | 0 | .33 | 1.00 | .67 |
| | Vanadium | 2 | 0 | .30 | 1.00 | .63 |
| | Zinc | 12 | 17 | .30 | 3.60 | .90 |
| 11 | Chromium (hexavalent) | 5 | 20 | .20 | 1.40 | .60 |
| 16 | 1,1,2,2-Tetrachloroethane | 2 | 0 | .23 | .23 | .23 |
| | 1,1,2-Trichloroethane | 2 | 0 | .83 | .83 | .83 |
| | 1,1-Dichloroethane | 2 | 0 | .63 | .63 | .63 |
| | 1,1-Dichloroethylene | 2 | 0 | .32 | .32 | .32 |
| | 1,2-Dichlorobenzene | 2 | 0 | .43 | .43 | .43 |
| | 1,2-Dichloroethane | 2 | 0 | .63 | .63 | .63 |
| | 1,2-Dichloropropane | 2 | 0 | .67 | .67 | .67 |
| | 1,3-Dichlorobenzene | 2 | 0 | .64 | .64 | .64 |
| | 1,4-Dichlorobenzene | 2 | 0 | .53 | .53 | .53 |
| | Bromoform | 2 | 0 | .30 | .30 | .30 |
| | Bromomethane | 2 | 0 | .70 | .70 | .70 |
| | Carbon Tetrachloride | 2 | 0 | .69 | .69 | .69 |
| | Chlorobenzene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Chloroform | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Chloromethane | 2 | 0 | .89 | .89 | .89 |
| | Cis-1,3-Dichloropropylene | 2 | 0 | .79 | .79 | .79 |
| | Dibromochloromethane | 2 | 0 | .91 | .91 | .91 |
| | Ethylene Dibromide | 2 | 0 | .50 | .50 | .50 |
| | Methylene Chloride | 2 | 50 | .77 | 73.85 | 37.31 |
| | Tetrachloroethylene | 2 | 0 | .82 | .82 | .82 |
| | Trans-1,2-Dichloroethylene | 2 | 0 | .79 | .79 | .79 |
| | Trans-1,3-Dichloropropylene | 2 | 0 | .36 | .36 | .36 |
| | Trichloroethylene | 2 | 0 | .47 | .47 | .47 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-5 (continued)

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

ATLAS SPECIALTY STEEL
FOR THE PERIOD FROM 891101 TO 901031

| | | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | % >RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 16 | Trichlorofluoromethane | 2 | 0 | .50 | .50 | .50 |
| | Vinyl Chloride | 2 | 0 | .83 | .83 | .83 |
| 17 | Benzene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Ethylbenzene | 1 | 0 | .83 | .83 | .83 |
| | Styrene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | Toluene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| | m-Xylene and p-Xylene | 1 | 0 | .91 | .91 | .91 |
| | o-Xylene | 1 | 0 | 1.00 | 1.00 | 1.00 |
| 19 | 1-Chloronaphthalene | 2 | 0 | .52 | .52 | .52 |
| | 1-Methylnaphthalene | 2 | 0 | .66 | .66 | .66 |
| | 2,4-Dinitrotoluene | 2 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 2 | 0 | .43 | .43 | .43 |
| | 2-Chloronaphthalene | 2 | 0 | .61 | .61 | .61 |
| | 2-Methylnaphthalene | 2 | 0 | .91 | .91 | .91 |
| | 4-Bromophenyl Phenyl Ether | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 2 | 0 | .78 | .78 | .78 |
| | 5-Nitro, Acenaphthene | 2 | 0 | .88 | .88 | .88 |
| | Acenaphthene | 2 | 0 | .77 | .77 | .77 |
| | Acenaphthylene | 2 | 0 | .50 | .50 | .50 |
| | Anthracene | 2 | 0 | .67 | .67 | .67 |
| | Benzo(a)anthracene | 2 | 0 | .60 | .60 | .60 |
| | Benzo(a)pyrene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzo(b)fluoranthene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzo(g,h,i)perylene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzo(k)fluoranthene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Benzobutylphthalate | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Bis(2-chloroethoxyl)methane | 2 | 0 | .89 | .89 | .89 |
| | Bis(2-chloroethyl)ether | 2 | 0 | .41 | .41 | .41 |
| | Bis(2-chloroisopropyl)ether | 2 | 0 | .50 | .50 | .50 |
| | Bis(2-ethylhexyl)phthalate | 2 | 50 | .59 | 21.55 | 11.07 |
| | Camphene | 2 | 0 | .77 | .77 | .77 |
| | Chrysene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Di-n-butyl Phthalate | 2 | 0 | .32 | .32 | .32 |
| | Dibenz(a,h)anthracene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Diphenylamine | 2 | 0 | .57 | .57 | .57 |
| | Fluoranthene | 2 | 0 | .75 | .75 | .75 |
| | Fluorene | 2 | 0 | .71 | .71 | .71 |
| | Indeno(1,2,3-cd)pyrene | 2 | 0 | .85 | .85 | .85 |
| | Indole | 2 | 0 | .53 | .53 | .53 |
| | N-Nitrosodi-n-propylamine | 2 | 0 | .68 | .68 | .68 |
| | N-Nitrosodiphenylamine | 2 | 0 | .57 | .57 | .57 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-5 (continued)

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

ATLAS SPECIALTY STEEL
FOR THE PERIOD FROM 891101 TO 901031

| | | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | % >RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 19 | Naphthalene | 2 | 0 | .69 | .69 | .69 |
| | Perylene | 2 | 0 | .73 | .73 | .73 |
| | Phenanthrene | 2 | 0 | .75 | .75 | .75 |
| | Pyrene | 2 | 0 | .75 | .75 | .75 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,3,5-Tetrachlorobenzene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,3-Trichlorobenzene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,4,5-Tetrachlorobenzene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,4-Trichlorobenzene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,4,5-Trichlorotoluene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachlorobenzene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachlorobutadiene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachlorocyclopentadiene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachloroethane | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Octachlorostyrene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Pentachlorobenzene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| 25 | Oil and Grease | 19 | 16 | 1.00 | 1.20 | 1.02 |
| IS1 | Iron | 2 | 0 | .25 | .65 | .45 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-6

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

IVACO ROLLING MILLS
FOR THE PERIOD FROM 891101 TO 901031

| | | | | CONCENTRATION RATIO | | |
|---|---|---|---|---|---|---|
| ATG | PARAMETER | TNS | % >RMDL | MINIMUM | MAXIMUM | AVERAGE |
| 5a | DOC | 2 | 0 | .23 | .56 | .39 |
| 6 | Total Phosphorus | 2 | 0 | .10 | .10 | .10 |
| 7 | Specific Conductance | 1 | 0 | .83 | .83 | .83 |
| 9 | Chromium | 2 | 0 | .10 | .10 | .10 |
| | Lead | 2 | 0 | .37 | .37 | .37 |
| | Zinc | 2 | 0 | .30 | .30 | .30 |
| 25 | Oil and Grease | 2 | 50 | 1.00 | 1.00 | 1.00 |
| IS1 | Iron | 2 | 0 | .10 | .10 | .10 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-7

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

LASCO
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | TNS | % >RMDL | CONCENTRATION RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|---|
| 5a | DOC | 11 | 91 | .20 | 48.20 | 9.14 |
| 6 | Total Phosphorus | 11 | 0 | .50 | .85 | .53 |
| 7 | Specific Conductance | 11 | 55 | .20 | 4.00 | 1.49 |
| 8 | Total Suspended Solids | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Volatile Suspended Solids | 3 | 0 | .50 | .50 | .50 |
| 9 | Aluminum | 2 | 0 | .67 | .67 | .67 |
| | Beryllium | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Cadmium | 2 | 50 | .50 | 2.00 | 1.00 |
| | Chromium | 2 | 0 | .50 | .55 | .55 |
| | Cobalt | 2 | 0 | .50 | .50 | .50 |
| | Copper | 2 | 100 | 1.30 | 2.50 | 1.90 |
| | Lead | 11 | 18 | .33 | 2.33 | .63 |
| | Molybdenum | 2 | 0 | .50 | .50 | .50 |
| | Nickel | 2 | 50 | .50 | 1.00 | .75 |
| | Silver | 2 | 0 | .33 | .33 | .33 |
| | Thallium | 2 | 50 | .67 | 1.00 | .83 |
| | Vanadium | 2 | 0 | .67 | .67 | .67 |
| | Zinc | 11 | 73 | 1.00 | 22.60 | 4.20 |
| 16 | 1,1,2,2-Tetrachloroethane | 2 | 0 | .35 | .35 | .35 |
| | 1,1,2-Trichloroethane | 2 | 0 | .83 | .83 | .83 |
| | 1,1-Dichloroethane | 2 | 0 | .63 | .63 | .63 |
| | 1,1-Dichloroethylene | 2 | 0 | .54 | .54 | .54 |
| | 1,2-Dichlorobenzene | 2 | 0 | .36 | .36 | .36 |
| | 1,2-Dichloroethane | 2 | 0 | .63 | .63 | .63 |
| | 1,2-Dichloropropane | 2 | 0 | .56 | .56 | .56 |
| | 1,3-Dichlorobenzene | 2 | 0 | .91 | .91 | .91 |
| | 1,4-Dichlorobenzene | 2 | 0 | .59 | .59 | .59 |
| | Bromoform | 2 | 0 | .54 | .54 | .54 |
| | Bromomethane | 2 | 0 | .68 | .68 | .68 |
| | Carbon Tetrachloride | 2 | 0 | .77 | .77 | .77 |
| | Chlorobenzene | 2 | 0 | .71 | .71 | .71 |
| | Chloroform | 2 | 0 | .57 | .57 | .57 |
| | Chloromethane | 2 | 0 | .11 | .11 | .11 |
| | Cis-1,3-Dichloropropylene | 2 | 0 | .71 | .71 | .71 |
| | Dibromochloromethane | 2 | 0 | .10 | .10 | .10 |
| | Ethylene Dibromide | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Methylene Chloride | 2 | 0 | .15 | .15 | .15 |
| | Tetrachloroethylene | 2 | 0 | .45 | .45 | .45 |
| | Trans-1,2-Dichloroethylene | 2 | 0 | .14 | .14 | .14 |
| | Trans-1,3-Dichloropropylene | 2 | 0 | .10 | .10 | .10 |
| | Trichloroethylene | 2 | 0 | .26 | .26 | .26 |
| | Trichlorofluoromethane | 2 | 0 | .50 | .50 | .50 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-7 (continued)

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

LASCO
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | TNS | % >RMDL | CONCENTRATION RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|---|
| 16 | Vinyl Chloride | 2 | 0 | .13 | .13 | .13 |
| 19 | 1-Chloronaphthalene | 2 | 0 | .40 | .40 | .40 |
| | 1-Methylnaphthalene | 2 | 0 | .22 | .22 | .22 |
| | 2,4-Dinitrotoluene | 2 | 0 | .63 | .63 | .63 |
| | 2,6-Dinitrotoluene | 2 | 0 | .71 | .71 | .71 |
| | 2-Chloronaphthalene | 2 | 0 | .28 | .28 | .28 |
| | 2-Methylnaphthalene | 2 | 0 | .41 | .41 | .41 |
| | 4-Bromophenyl Phenyl Ether | 2 | 50 | .33 | 1.67 | 1.00 |
| | 4-Chlorophenyl Phenyl Ether | 2 | 0 | .56 | .56 | .56 |
| | 5-Nitro, Acenaphthene | 2 | 0 | .10 | .10 | .10 |
| | Acenaphthene | 2 | 0 | .12 | .12 | .12 |
| | Acenaphthylene | 2 | 0 | .11 | .11 | .11 |
| | Anthracene | 2 | 0 | .10 | .10 | .10 |
| | Benzo(a)anthracene | 2 | 0 | .10 | .10 | .10 |
| | Benzo(a)pyrene | 2 | 0 | .10 | .10 | .10 |
| | Benzo(b)fluoranthene | 2 | 0 | .13 | .13 | .13 |
| | Benzo(g,h,i)perylene | 2 | 0 | .13 | .13 | .13 |
| | Benzo(k)fluoranthene | 2 | 0 | .10 | .10 | .10 |
| | Benzobutylphthalate | 2 | 0 | .17 | .17 | .17 |
| | Bis(2-chloroethoxyl)methane | 2 | 0 | .14 | .14 | .14 |
| | Bis(2-chloroethyl)ether | 2 | 0 | .18 | .18 | .18 |
| | Bis(2-chloroisopropyl)ether | 2 | 0 | .36 | .36 | .36 |
| | Bis(2-ethylhexyl)phthalate | 2 | 0 | .91 | .91 | .91 |
| | Camphene | 2 | 0 | .86 | .86 | .86 |
| | Chrysene | 2 | 0 | .13 | .13 | .13 |
| | Di-n-butyl Phthalate | 2 | 0 | .21 | .21 | .21 |
| | Di-n-octyl Phthalate | 2 | 0 | .40 | .75 | .57 |
| | Dibenz(a,h)anthracene | 2 | 0 | .10 | .10 | .10 |
| | Diphenylamine | 2 | 0 | .10 | .10 | .10 |
| | Fluoranthene | 2 | 0 | .13 | .13 | .13 |
| | Fluorene | 2 | 0 | .10 | .10 | .10 |
| | Indeno(1,2,3-cd)pyrene | 2 | 0 | .38 | .38 | .38 |
| | Indole | 2 | 0 | .79 | .79 | .79 |
| | N-Nitrosodi-n-propylamine | 2 | 0 | .32 | .32 | .32 |
| | N-Nitrosodiphenylamine | 2 | 0 | .14 | .14 | .14 |
| | Naphthalene | 2 | 0 | .56 | .56 | .56 |
| | Perylene | 2 | 0 | .60 | .60 | .60 |
| | Phenanthrene | 2 | 0 | .20 | .20 | .20 |
| | Pyrene | 2 | 0 | .10 | .10 | .10 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 2 | 0 | .60 | .60 | .60 |
| | 1,2,3,5-Tetrachlorobenzene | 2 | 0 | .80 | .80 | .80 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

APPENDIX VIII

TABLE VIII-7 (continued)

TRAVELLING BLANK DATA
DETECTION FREQUENCY AND CONCENTRATION RATIOS
FOR THE WHOLE PLANT

LASCO
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | TNS | % >RMDL | CONCENTRATION RATIO MINIMUM | MAXIMUM | AVERAGE |
|---|---|---|---|---|---|---|
| 23 | 1,2,3-Trichlorobenzene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | 1,2,4,5-Tetrachlorobenzene | 2 | 0 | .80 | .80 | .80 |
| | 1,2,4-Trichlorobenzene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | 2,4,5-Trichlorotoluene | 2 | 0 | .80 | .80 | .80 |
| | Hexachlorobenzene | 2 | 0 | .60 | .60 | .60 |
| | Hexachlorobutadiene | 2 | 0 | .80 | .80 | .80 |
| | Hexachlorocyclopentadiene | 2 | 0 | 1.00 | 1.00 | 1.00 |
| | Hexachloroethane | 2 | 0 | .80 | .80 | .80 |
| | Octachlorostyrene | 2 | 0 | .60 | .60 | .60 |
| | Pentachlorobenzene | 2 | 0 | .80 | .80 | .80 |
| 25 | Oil and Grease | 11 | 27 | 1.00 | 1.50 | 1.07 |
| IS1 | Iron | 11 | 73 | .50 | 2.50 | 1.45 |

TNS = NUMBER OF VALID SAMPLES
% >RMDL = PERCENT FREQUENCY OF DETECTION ABOVE RMDL
RATIO = CONCENTRATION DIVIDED BY REGULATION METHOD DETECTION LIMIT

# APPENDIX IX

## Travelling Spiked Blank Data

Percent Recoveries and Concentration Ratio

Actual concentration value divided by the expected concentration value.

APPENDIX IX

TABLE IX-1

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

ALGOMA STEEL
FOR THE PERIOD FROM 891101 TO 900731

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 16 | 1,1,2,2-Tetrachloroethane | 1 | 32 | 32 | 32 | 1 |
| | 1,1,2-Trichloroethane | 1 | 53 | 53 | 53 | 8 |
| | 1,1-Dichloroethane | 1 | 38 | 38 | 38 | 4 |
| | 1,1-Dichloroethylene | 1 | 14 | 14 | 14 | 0 |
| | 1,2-Dichlorobenzene | 1 | 89 | 89 | 89 | 29 |
| | 1,2-Dichloroethane | 1 | 66 | 66 | 66 | 7 |
| | 1,2-Dichloropropane | 1 | 54 | 54 | 54 | 5 |
| | 1,3-Dichlorobenzene | 1 | 56 | 56 | 56 | 23 |
| | 1,4-Dichlorobenzene | 1 | 60 | 60 | 60 | 16 |
| | Bromoform | 1 | 71 | 71 | 71 | 2 |
| | Bromomethane | 1 | 34 | 34 | 34 | 1 |
| | Carbon Tetrachloride | 1 | 17 | 17 | 17 | 1 |
| | Chlorobenzene | 1 | 55 | 55 | 55 | 35 |
| | Chloroform | 1 | 39 | 39 | 39 | 8 |
| | Chloromethane | 1 | 32 | 32 | 32 | 1 |
| | Cis-1,3-Dichloropropylene | 1 | 55 | 55 | 55 | 4 |
| | Dibromochloromethane | 1 | 43 | 43 | 43 | 6 |
| | Ethylene Dibromide | 1 | 48 | 48 | 48 | 7 |
| | Methylene Chloride | 1 | 107 | 107 | 107 | 37 |
| | Tetrachloroethylene | 1 | 14 | 14 | 14 | 1 |
| | Trans-1,2-Dichloroethylene | 1 | 30 | 30 | 30 | 2 |
| | Trans-1,3-Dichloropropylene | 1 | 50 | 50 | 50 | 3 |
| | Trichloroethylene | 1 | 79 | 79 | 79 | 4 |
| | Trichlorofluoromethane | 1 | 78 | 78 | 78 | 7 |
| | Vinyl Chloride | 1 | 35 | 35 | 35 | 1 |
| 17 | Benzene | 9 | 5 | 79 | 28 | 6 |
| | Ethylbenzene | 1 | 33 | 33 | 33 | 8 |
| | Styrene | 1 | 44 | 44 | 44 | 13 |
| | Toluene | 1 | 35 | 35 | 35 | 10 |
| | m-Xylene and p-Xylene | 1 | 100 | 100 | 100 | 27 |
| | o-Xylene | 1 | 133 | 133 | 133 | 40 |
| 19 | 1-Chloronaphthalene | 1 | 50 | 50 | 50 | 4 |
| | 1-Methylnaphthalene | 1 | 58 | 58 | 58 | 4 |
| | 2,4-Dinitrotoluene | 1 | 123 | 123 | 123 | 31 |
| | 2,6-Dinitrotoluene | 1 | 112 | 112 | 112 | 32 |
| | 2-Chloronaphthalene | 1 | 71 | 71 | 71 | 8 |
| | 2-Methylnaphthalene | 1 | 53 | 53 | 53 | 5 |
| | 4-Bromophenyl Phenyl Ether | 1 | 85 | 85 | 85 | 57 |
| | 4-Chlorophenyl Phenyl Ether | 1 | 88 | 88 | 88 | 20 |
| | 5-Nitro, Acenaphthene | 1 | 124 | 124 | 124 | 6 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-1 (continued)

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

ALGOMA STEEL
FOR THE PERIOD FROM 891101 TO 900731

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 19 | Acenaphthene | 1 | 70 | 70 | 70 | 11 |
| | Acenaphthylene | 1 | 72 | 72 | 72 | 10 |
| | Anthracene | 1 | 82 | 82 | 82 | 14 |
| | Benzo(a)anthracene | 1 | 81 | 81 | 81 | 32 |
| | Benzo(a)pyrene | 9 | 6 | 117 | 66 | 13 |
| | Benzo(b)fluoranthene | 1 | 97 | 97 | 97 | 28 |
| | Benzo(g,h,i)perylene | 1 | 92 | 92 | 92 | 26 |
| | Benzo(k)fluoranthene | 1 | 91 | 91 | 91 | 26 |
| | Benzobutylphthalate | 1 | 88 | 88 | 88 | 29 |
| | Bis(2-chloroethoxyl)methane | 1 | 69 | 69 | 69 | 4 |
| | Bis(2-chloroethyl)ether | 1 | 73 | 73 | 73 | 3 |
| | Bis(2-chloroisopropyl)ether | 1 | 60 | 60 | 60 | 5 |
| | Bis(2-ethylhexyl)phthalate | 1 | 99 | 99 | 99 | 9 |
| | Camphene | 1 | 30 | 30 | 30 | 2 |
| | Chrysene | 1 | 91 | 91 | 91 | 61 |
| | Di-n-butyl Phthalate | 1 | 95 | 95 | 95 | 5 |
| | Di-n-octyl Phthalate | 1 | 95 | 95 | 95 | 10 |
| | Dibenz(a,h)anthracene | 1 | 93 | 93 | 93 | 14 |
| | Diphenylamine | 1 | 79 | 79 | 79 | 1 |
| | Fluoranthene | 1 | 83 | 83 | 83 | 42 |
| | Fluorene | 1 | 79 | 79 | 79 | 9 |
| | Indeno(1,2,3-cd)pyrene | 1 | 99 | 99 | 99 | 15 |
| | Indole | 1 | 48 | 48 | 48 | 5 |
| | N-Nitrosodi-n-propylamine | 1 | 78 | 78 | 78 | 5 |
| | N-Nitrosodiphenylamine | 1 | 79 | 79 | 79 | 1 |
| | Naphthalene | 9 | 11 | 111 | 70 | 5 |
| | Perylene | 1 | 82 | 82 | 82 | 11 |
| | Phenanthrene | 1 | 80 | 80 | 80 | 40 |
| | Pyrene | 1 | 83 | 83 | 83 | 42 |
| 20 | 2,3,4,5-Tetrachlorophenol | 1 | 88 | 88 | 88 | 44 |
| | 2,3,4,6-Tetrachlorophenol | 1 | 69 | 69 | 69 | 5 |
| | 2,3,4-Trichlorophenol | 1 | 53 | 53 | 53 | 18 |
| | 2,3,5,6-Tetrachlorophenol | 1 | 53 | 53 | 53 | 7 |
| | 2,3,5-Trichlorophenol | 1 | 56 | 56 | 56 | 9 |
| | 2,4,5-Trichlorophenol | 1 | 48 | 48 | 48 | 7 |
| | 2,4,6-Trichlorophenol | 1 | 48 | 48 | 48 | 7 |
| | 2,4-Dichlorophenol | 1 | 41 | 41 | 41 | 5 |
| | 2,4-Dimethylphenol | 1 | 40 | 40 | 40 | 1 |
| | 2,4-Dinitrophenol | 1 | 93 | 93 | 93 | 2 |
| | 2,6-Dichlorophenol | 1 | 40 | 40 | 40 | 4 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-1 (continued)

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

ALGOMA STEEL
FOR THE PERIOD FROM 891101 TO 900731

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 20 | 2-Chlorophenol | 1 | 38 | 38 | 38 | 2 |
| | 4,6-Dinitro-o-cresol | 1 | 67 | 67 | 67 | 3 |
| | 4-Chloro-3-methylphenol | 1 | 51 | 51 | 51 | 7 |
| | 4-Nitrophenol | 1 | 42 | 42 | 42 | 6 |
| | Pentachlorophenol | 1 | 95 | 95 | 95 | 15 |
| | Phenol | 1 | 51 | 51 | 51 | 4 |
| | m-Cresol | 1 | 47 | 47 | 47 | 3 |
| | o-Cresol | 1 | 49 | 49 | 49 | 3 |
| | p-Cresol | 1 | 47 | 47 | 47 | 3 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 1 | 57 | 57 | 57 | 1140 |
| | 1,2,3,5-Tetrachlorobenzene | 1 | 104 | 104 | 104 | 2080 |
| | 1,2,3-Trichlorobenzene | 1 | 43 | 43 | 43 | 850 |
| | 1,2,4,5-Tetrachlorobenzene | 1 | 104 | 104 | 104 | 2080 |
| | 1,2,4-Trichlorobenzene | 1 | 83 | 83 | 83 | 1650 |
| | 2,4,5-Trichlorotoluene | 1 | 62 | 62 | 62 | 1240 |
| | Hexachlorobenzene | 1 | 93 | 93 | 93 | 1850 |
| | Hexachlorobutadiene | 1 | 33 | 33 | 33 | 667 |
| | Hexachlorocyclopentadiene | 1 | 98 | 98 | 98 | 1950 |
| | Hexachloroethane | 1 | 28 | 28 | 28 | 568 |
| | Octachlorostyrene | 1 | 68 | 68 | 68 | 1350 |
| | Pentachlorobenzene | 1 | 77 | 77 | 77 | 1530 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-2

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

DOFASCO INC.
FOR THE PERIOD FROM 891101 TO 901031

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 16 | 1,1,2,2-Tetrachloroethane | 2 | 100 | 110 | 105 | 5 |
| | 1,1,2-Trichloroethane | 2 | 100 | 115 | 108 | 36 |
| | 1,1-Dichloroethane | 2 | 95 | 100 | 98 | 24 |
| | 1,1-Dichloroethylene | 2 | 95 | 100 | 98 | 7 |
| | 1,2-Dichlorobenzene | 2 | 90 | 130 | 110 | 16 |
| | 1,2-Dichloroethane | 2 | 100 | 100 | 100 | 25 |
| | 1,2-Dichloropropane | 2 | 100 | 105 | 103 | 23 |
| | 1,3-Dichlorobenzene | 2 | 90 | 90 | 90 | 16 |
| | 1,4-Dichlorobenzene | 2 | 75 | 105 | 90 | 11 |
| | Bromoform | 2 | 90 | 100 | 95 | 5 |
| | Bromomethane | 2 | 100 | 105 | 103 | 6 |
| | Carbon Tetrachloride | 2 | 100 | 110 | 105 | 16 |
| | Chlorobenzene | 2 | 100 | 100 | 100 | 29 |
| | Chloroform | 2 | 90 | 95 | 93 | 26 |
| | Chloromethane | 2 | 50 | 110 | 80 | 4 |
| | Cis-1,3-Dichloropropylene | 2 | 100 | 100 | 100 | 14 |
| | Dibromochloromethane | 2 | 95 | 105 | 100 | 18 |
| | Ethylene Dibromide | 2 | 100 | 100 | 100 | 20 |
| | Methylene Chloride | 2 | 75 | 80 | 78 | 12 |
| | Tetrachloroethylene | 2 | 105 | 105 | 105 | 19 |
| | Trans-1,2-Dichloroethylene | 2 | 95 | 105 | 100 | 14 |
| | Trans-1,3-Dichloropropylene | 2 | 95 | 105 | 100 | 14 |
| | Trichloroethylene | 2 | 95 | 105 | 100 | 11 |
| | Trichlorofluoromethane | 2 | 100 | 120 | 110 | 22 |
| | Vinyl Chloride | 2 | 100 | 100 | 100 | 5 |
| 17 | Benzene | 14 | 70 | 105 | 92 | 37 |
| | Ethylbenzene | 5 | 100 | 110 | 105 | 35 |
| | Styrene | 5 | 95 | 105 | 99 | 40 |
| | Toluene | 5 | 90 | 105 | 96 | 38 |
| | m-Xylene and p-Xylene | 5 | 100 | 105 | 103 | 38 |
| | o-Xylene | 5 | 100 | 105 | 103 | 41 |
| 19 | 1-Chloronaphthalene | 5 | 60 | 110 | 80 | 6 |
| | 1-Methylnaphthalene | 5 | 60 | 95 | 75 | 5 |
| | 2,4-Dinitrotoluene | 5 | 60 | 95 | 80 | 20 |
| | 2,6-Dinitrotoluene | 5 | 65 | 95 | 83 | 24 |
| | 2-Chloronaphthalene | 5 | 55 | 100 | 80 | 9 |
| | 2-Methylnaphthalene | 5 | 60 | 100 | 78 | 7 |
| | 4-Bromophenyl Phenyl Ether | 5 | 65 | 105 | 80 | 53 |
| | 4-Chlorophenyl Phenyl Ether | 5 | 65 | 105 | 82 | 18 |
| | 5-Nitro, Acenaphthene | 5 | 55 | 100 | 85 | 4 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-2 (continued)

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

DOFASCO INC.
FOR THE PERIOD FROM 891101 TO 901031

| ATG | PARAMETER | TNS | % RECOVERY MINIMUM | % RECOVERY MAXIMUM | % RECOVERY AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 19 | Acenaphthene | 5 | 65 | 100 | 79 | 12 |
| | Acenaphthylene | 5 | 65 | 100 | 77 | 11 |
| | Anthracene | 5 | 43 | 90 | 60 | 10 |
| | Benzo(a)anthracene | 5 | 14 | 50 | 34 | 14 |
| | Benzo(a)pyrene | 14 | 3 | 105 | 35 | 11 |
| | Benzo(b)fluoranthene | 5 | 11 | 80 | 42 | 12 |
| | Benzo(g,h,i)perylene | 5 | 9 | 44 | 28 | 8 |
| | Benzo(k)fluoranthene | 5 | 5 | 80 | 39 | 11 |
| | Benzobutylphthalate | 5 | 25 | 60 | 41 | 14 |
| | Bis(2-chloroethoxyl)methane | 5 | 55 | 125 | 87 | 5 |
| | Bis(2-chloroethyl)ether | 5 | 55 | 105 | 84 | 4 |
| | Bis(2-chloroisopropyl)ether | 5 | 55 | 110 | 85 | 8 |
| | Bis(2-ethylhexyl)phthalate | 5 | 26 | 105 | 65 | 6 |
| | Camphene | 5 | 5 | 60 | 25 | 1 |
| | Chrysene | 5 | 10 | 44 | 32 | 21 |
| | Di-n-butyl Phthalate | 5 | 50 | 80 | 66 | 3 |
| | Di-n-octyl Phthalate | 5 | 11 | 55 | 33 | 3 |
| | Dibenz(a,h)anthracene | 5 | 8 | 43 | 28 | 4 |
| | Diphenylamine | 5 | 60 | 105 | 75 | 1 |
| | Fluoranthene | 5 | 60 | 80 | 66 | 33 |
| | Fluorene | 5 | 75 | 110 | 88 | 10 |
| | Indeno(1,2,3-cd)pyrene | 5 | 9 | 45 | 28 | 4 |
| | Indole | 5 | 60 | 105 | 81 | 9 |
| | N-Nitrosodi-n-propylamine | 5 | 60 | 155 | 99 | 6 |
| | N-Nitrosodiphenylamine | 5 | 60 | 105 | 75 | 1 |
| | Naphthalene | 14 | 41 | 120 | 84 | 10 |
| | Perylene | 5 | 12 | 55 | 32 | 4 |
| | Phenanthrene | 5 | 65 | 100 | 77 | 39 |
| | Pyrene | 5 | 55 | 60 | 58 | 29 |
| 20 | 2,3,4,5-Tetrachlorophenol | 2 | 65 | 80 | 73 | 36 |
| | 2,3,4,6-Tetrachlorophenol | 2 | 85 | 95 | 90 | 6 |
| | 2,3,4-Trichlorophenol | 2 | 80 | 85 | 83 | 28 |
| | 2,3,5,6-Tetrachlorophenol | 2 | 85 | 95 | 90 | 11 |
| | 2,3,5-Trichlorophenol | 2 | 70 | 90 | 80 | 12 |
| | 2,4,5-Trichlorophenol | 2 | 80 | 90 | 85 | 13 |
| | 2,4,6-Trichlorophenol | 2 | 60 | 85 | 73 | 11 |
| | 2,4-Dichlorophenol | 2 | 55 | 55 | 55 | 6 |
| | 2,4-Dimethylphenol | 2 | 9 | 10 | 10 | 0 |
| | 2,4-Dinitrophenol | 2 | 25 | 60 | 43 | 0 |
| | 2,6-Dichlorophenol | 2 | 65 | 85 | 75 | 8 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-2 (continued)

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

DOFASCO INC.
FOR THE PERIOD FROM 891101 TO 901031

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 20 | 2-Chlorophenol | 2 | 41 | 90 | 66 | 4 |
| | 4,6-Dinitro-o-cresol | 2 | 42 | 85 | 64 | 1 |
| | 4-Chloro-3-methylphenol | 2 | 50 | 85 | 68 | 9 |
| | 4-Nitrophenol | 2 | 26 | 38 | 32 | 5 |
| | Pentachlorophenol | 2 | 60 | 85 | 73 | 11 |
| | Phenol | 2 | 24 | 45 | 35 | 3 |
| | m-Cresol | 2 | 40 | 55 | 48 | 3 |
| | o-Cresol | 2 | 35 | 55 | 45 | 2 |
| | p-Cresol | 2 | 40 | 55 | 48 | 3 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 2 | 2 | 88 | 45 | 22 |
| | 1,2,3,5-Tetrachlorobenzene | 2 | 1 | 76 | 39 | 19 |
| | 1,2,3-Trichlorobenzene | 2 | 2 | 78 | 40 | 20 |
| | 1,2,4,5-Tetrachlorobenzene | 2 | 1 | 76 | 39 | 19 |
| | 1,2,4-Trichlorobenzene | 2 | 1 | 56 | 29 | 14 |
| | 2,4,5-Trichlorotoluene | 2 | 1 | 86 | 44 | 22 |
| | Hexachlorobenzene | 2 | 1 | 114 | 58 | 29 |
| | Hexachlorobutadiene | 2 | 4 | 60 | 32 | 2 |
| | Hexachlorocyclopentadiene | 2 | 5 | 60 | 33 | 3 |
| | Hexachloroethane | 2 | 2 | 40 | 21 | 2 |
| | Octachlorostyrene | 2 | 3 | 110 | 57 | 6 |
| | Pentachlorobenzene | 2 | 0 | 84 | 42 | 21 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-3

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

STELCO STEEL HILTON WORKS
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | % RECOVERY TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 16 | 1,1,2,2-Tetrachloroethane | 1 | 100 | 100 | 100 | 5 |
| | 1,1,2-Trichloroethane | 1 | 90 | 90 | 90 | 30 |
| | 1,1-Dichloroethane | 1 | 150 | 150 | 150 | 38 |
| | 1,1-Dichloroethylene | 1 | 100 | 100 | 100 | 7 |
| | 1,2-Dichlorobenzene | 1 | 105 | 105 | 105 | 15 |
| | 1,2-Dichloroethane | 1 | 120 | 120 | 120 | 30 |
| | 1,2-Dichloropropane | 1 | 120 | 120 | 120 | 27 |
| | 1,3-Dichlorobenzene | 1 | 80 | 80 | 80 | 15 |
| | 1,4-Dichlorobenzene | 1 | 80 | 80 | 80 | 9 |
| | Bromoform | 1 | 95 | 95 | 95 | 5 |
| | Bromomethane | 1 | 90 | 90 | 90 | 5 |
| | Carbon Tetrachloride | 1 | 110 | 110 | 110 | 17 |
| | Chlorobenzene | 1 | 100 | 100 | 100 | 29 |
| | Chloroform | 1 | 120 | 120 | 120 | 34 |
| | Chloromethane | 1 | 70 | 70 | 70 | 4 |
| | Cis-1,3-Dichloropropylene | 1 | 95 | 95 | 95 | 14 |
| | Dibromochloromethane | 1 | 100 | 100 | 100 | 18 |
| | Ethylene Dibromide | 1 | 105 | 105 | 105 | 21 |
| | Methylene Chloride | 1 | 100 | 100 | 100 | 15 |
| | Tetrachloroethylene | 1 | 95 | 95 | 95 | 17 |
| | Trans-1,2-Dichloroethylene | 1 | 130 | 130 | 130 | 19 |
| | Trans-1,3-Dichloropropylene | 1 | 95 | 95 | 95 | 14 |
| | Trichloroethylene | 1 | 115 | 115 | 115 | 12 |
| | Trichlorofluoromethane | 1 | 95 | 95 | 95 | 19 |
| | Vinyl Chloride | 1 | 80 | 80 | 80 | 4 |
| 17 | Benzene | 9 | 85 | 115 | 101 | 40 |
| | Ethylbenzene | 1 | 105 | 105 | 105 | 35 |
| | Styrene | 1 | 102 | 102 | 102 | 41 |
| | Toluene | 1 | 90 | 90 | 90 | 36 |
| | m-Xylene and p-Xylene | 1 | 100 | 100 | 100 | 36 |
| | o-Xylene | 1 | 105 | 105 | 105 | 42 |
| 19 | 1-Chloronaphthalene | 1 | 70 | 70 | 70 | 6 |
| | 1-Methylnaphthalene | 1 | 85 | 85 | 85 | 5 |
| | 2,4-Dinitrotoluene | 1 | 130 | 130 | 130 | 33 |
| | 2,6-Dinitrotoluene | 1 | 80 | 80 | 80 | 23 |
| | 2-Chloronaphthalene | 1 | 80 | 80 | 80 | 9 |
| | 2-Methylnaphthalene | 1 | 80 | 80 | 80 | 7 |
| | 4-Bromophenyl Phenyl Ether | 1 | 80 | 80 | 80 | 53 |
| | 4-Chlorophenyl Phenyl Ether | 1 | 115 | 115 | 115 | 26 |
| | 5-Nitro, Acenaphthene | 1 | 105 | 105 | 105 | 5 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-3 (continued)

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

STELCO STEEL HILTON WORKS
FOR THE PERIOD FROM 891101 TO 900731

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 19 | Acenaphthene | 1 | 70 | 70 | 70 | 11 |
| | Acenaphthylene | 1 | 55 | 55 | 55 | 8 |
| | Anthracene | 1 | 75 | 75 | 75 | 13 |
| | Benzo(a)anthracene | 1 | 30 | 30 | 30 | 12 |
| | Benzo(a)pyrene | 9 | 0 | 70 | 28 | 10 |
| | Benzo(b)fluoranthene | 1 | 40 | 40 | 40 | 11 |
| | Benzo(g,h,i)perylene | 1 | 10 | 10 | 10 | 3 |
| | Benzo(k)fluoranthene | 1 | 40 | 40 | 40 | 11 |
| | Benzobutylphthalate | 1 | 90 | 90 | 90 | 30 |
| | Bis(2-chloroethoxyl)methane | 1 | 85 | 85 | 85 | 5 |
| | Bis(2-chloroethyl)ether | 1 | 85 | 85 | 85 | 4 |
| | Bis(2-chloroisopropyl)ether | 1 | 90 | 90 | 90 | 8 |
| | Bis(2-ethylhexyl)phthalate | 1 | 43 | 43 | 43 | 4 |
| | Camphene | 1 | 40 | 40 | 40 | 2 |
| | Chrysene | 1 | 30 | 30 | 30 | 20 |
| | Di-n-butyl Phthalate | 1 | 60 | 60 | 60 | 3 |
| | Dibenz(a,h)anthracene | 1 | 10 | 10 | 10 | 2 |
| | Diphenylamine | 1 | 60 | 60 | 60 | 1 |
| | Fluoranthene | 1 | 65 | 65 | 65 | 33 |
| | Fluorene | 1 | 125 | 125 | 125 | 15 |
| | Indeno(1,2,3-cd)pyrene | 1 | 10 | 10 | 10 | 2 |
| | Indole | 1 | 75 | 75 | 75 | 8 |
| | N-Nitrosodi-n-propylamine | 1 | 85 | 85 | 85 | 5 |
| | N-Nitrosodiphenylamine | 1 | 65 | 65 | 65 | 1 |
| | Naphthalene | 9 | 0 | 95 | 52 | 7 |
| | Perylene | 1 | 20 | 20 | 20 | 3 |
| | Phenanthrene | 1 | 100 | 100 | 100 | 50 |
| | Pyrene | 1 | 75 | 75 | 75 | 38 |
| 20 | 2,3,4,5-Tetrachlorophenol | 1 | 95 | 95 | 95 | 48 |
| | 2,3,4,6-Tetrachlorophenol | 1 | 100 | 100 | 100 | 7 |
| | 2,3,4-Trichlorophenol | 1 | 80 | 80 | 80 | 27 |
| | 2,3,5,6-Tetrachlorophenol | 1 | 100 | 100 | 100 | 13 |
| | 2,3,5-Trichlorophenol | 1 | 95 | 95 | 95 | 15 |
| | 2,4,5-Trichlorophenol | 1 | 80 | 80 | 80 | 12 |
| | 2,4,6-Trichlorophenol | 1 | 85 | 85 | 85 | 13 |
| | 2,4-Dichlorophenol | 1 | 80 | 80 | 80 | 9 |
| | 2,4-Dimethylphenol | 1 | 25 | 25 | 25 | 1 |
| | 2,4-Dinitrophenol | 1 | 85 | 85 | 85 | 0 |
| | 2,6-Dichlorophenol | 1 | 85 | 85 | 85 | 9 |
| | 2-Chlorophenol | 1 | 70 | 70 | 70 | 4 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-3 (continued)

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

STELCO STEEL HILTON WORKS
FOR THE PERIOD FROM 891101 TO 900731

| ATG | PARAMETER | % RECOVERY TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 20 | 4,6-Dinitro-o-cresol | 1 | 110 | 110 | 110 | 1 |
| | 4-Chloro-3-methylphenol | 1 | 80 | 80 | 80 | 11 |
| | 4-Nitrophenol | 1 | 125 | 125 | 125 | 18 |
| | Pentachlorophenol | 1 | 80 | 80 | 80 | 12 |
| | Phenol | 1 | 40 | 40 | 40 | 3 |
| | m-Cresol | 1 | 65 | 65 | 65 | 4 |
| | o-Cresol | 1 | 60 | 60 | 60 | 3 |
| | p-Cresol | 1 | 60 | 60 | 60 | 3 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 1 | 78 | 78 | 78 | 39 |
| | 1,2,3,5-Tetrachlorobenzene | 1 | 72 | 72 | 72 | 36 |
| | 1,2,3-Trichlorobenzene | 1 | 58 | 58 | 58 | 29 |
| | 1,2,4,5-Tetrachlorobenzene | 1 | 72 | 72 | 72 | 36 |
| | 1,2,4-Trichlorobenzene | 1 | 60 | 60 | 60 | 30 |
| | 2,4,5-Trichlorotoluene | 1 | 86 | 86 | 86 | 43 |
| | Hexachlorobenzene | 1 | 104 | 104 | 104 | 52 |
| | Hexachlorobutadiene | 1 | 50 | 50 | 50 | 3 |
| | Hexachlorocyclopentadiene | 1 | 5 | 5 | 5 | 1 |
| | Hexachloroethane | 1 | 51 | 51 | 51 | 5 |
| | Octachlorostyrene | 1 | 130 | 130 | 130 | 13 |
| | Pentachlorobenzene | 1 | 98 | 98 | 98 | 49 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-4

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

STELCO STEEL LAKE ERIE WORKS
FOR THE PERIOD FROM 891101 TO 900731

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 16 | 1,1,2,2-Tetrachloroethane | 1 | 95 | 95 | 95 | 4 |
| | 1,1,2-Trichloroethane | 1 | 105 | 105 | 105 | 35 |
| | 1,1-Dichloroethane | 1 | 90 | 90 | 90 | 23 |
| | 1,1-Dichloroethylene | 1 | 90 | 90 | 90 | 6 |
| | 1,2-Dichlorobenzene | 1 | 100 | 100 | 100 | 14 |
| | 1,2-Dichloroethane | 1 | 95 | 95 | 95 | 24 |
| | 1,2-Dichloropropane | 1 | 100 | 100 | 100 | 22 |
| | 1,3-Dichlorobenzene | 1 | 95 | 95 | 95 | 17 |
| | 1,4-Dichlorobenzene | 1 | 95 | 95 | 95 | 11 |
| | Bromoform | 1 | 105 | 105 | 105 | 6 |
| | Bromomethane | 1 | 75 | 75 | 75 | 4 |
| | Carbon Tetrachloride | 1 | 95 | 95 | 95 | 15 |
| | Chlorobenzene | 1 | 105 | 105 | 105 | 30 |
| | Chloroform | 1 | 95 | 95 | 95 | 27 |
| | Chloromethane | 1 | 70 | 70 | 70 | 4 |
| | Cis-1,3-Dichloropropylene | 1 | 110 | 110 | 110 | 16 |
| | Dibromochloromethane | 1 | 110 | 110 | 110 | 20 |
| | Ethylene Dibromide | 1 | 105 | 105 | 105 | 21 |
| | Methylene Chloride | 1 | 95 | 95 | 95 | 15 |
| | Tetrachloroethylene | 1 | 100 | 100 | 100 | 18 |
| | Trans-1,2-Dichloroethylene | 1 | 90 | 90 | 90 | 13 |
| | Trans-1,3-Dichloropropylene | 1 | 115 | 115 | 115 | 16 |
| | Trichloroethylene | 1 | 110 | 110 | 110 | 12 |
| | Trichlorofluoromethane | 1 | 100 | 100 | 100 | 20 |
| | Vinyl Chloride | 1 | 75 | 75 | 75 | 4 |
| 17 | Benzene | 10 | 85 | 110 | 97 | 39 |
| | Ethylbenzene | 2 | 95 | 100 | 98 | 33 |
| | Styrene | 2 | 90 | 90 | 90 | 36 |
| | Toluene | 2 | 80 | 80 | 80 | 32 |
| | m-Xylene and p-Xylene | 2 | 93 | 98 | 96 | 35 |
| | o-Xylene | 2 | 85 | 210 | 148 | 59 |
| 19 | 1-Chloronaphthalene | 2 | 80 | 90 | 85 | 7 |
| | 1-Methylnaphthalene | 2 | 90 | 100 | 95 | 6 |
| | 2,4-Dinitrotoluene | 2 | 80 | 95 | 88 | 22 |
| | 2,6-Dinitrotoluene | 2 | 80 | 90 | 85 | 24 |
| | 2-Chloronaphthalene | 2 | 100 | 105 | 103 | 11 |
| | 2-Methylnaphthalene | 2 | 75 | 95 | 85 | 8 |
| | 4-Bromophenyl Phenyl Ether | 2 | 85 | 90 | 88 | 58 |
| | 4-Chlorophenyl Phenyl Ether | 2 | 80 | 90 | 85 | 19 |
| | 5-Nitro, Acenaphthene | 2 | 85 | 95 | 90 | 4 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-4 (continued)

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

STELCO STEEL LAKE ERIE WORKS
FOR THE PERIOD FROM 891101 TO 900731

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 19 | Acenaphthene | 2 | 95 | 100 | 98 | 15 |
| | Acenaphthylene | 2 | 90 | 100 | 95 | 14 |
| | Anthracene | 2 | 85 | 90 | 88 | 15 |
| | Benzo(a)anthracene | 2 | 80 | 100 | 90 | 36 |
| | Benzo(a)pyrene | 10 | 18 | 100 | 64 | 21 |
| | Benzo(b)fluoranthene | 2 | 50 | 55 | 53 | 15 |
| | Benzo(g,h,i)perylene | 2 | 36 | 115 | 76 | 22 |
| | Benzo(k)fluoranthene | 2 | 60 | 75 | 68 | 19 |
| | Benzobutylphthalate | 2 | 60 | 65 | 63 | 21 |
| | Bis(2-chloroethoxyl)methane | 2 | 80 | 80 | 80 | 5 |
| | Bis(2-chloroethyl)ether | 2 | 70 | 95 | 83 | 4 |
| | Bis(2-chloroisopropyl)ether | 2 | 75 | 80 | 78 | 7 |
| | Bis(2-ethylhexyl)phthalate | 2 | 95 | 145 | 120 | 11 |
| | Camphene | 2 | 38 | 41 | 40 | 2 |
| | Chrysene | 2 | 90 | 105 | 98 | 65 |
| | Di-n-butyl Phthalate | 2 | 95 | 100 | 98 | 5 |
| | Di-n-octyl Phthalate | 2 | 100 | 115 | 108 | 11 |
| | Dibenz(a,h)anthracene | 2 | 29 | 110 | 70 | 11 |
| | Diphenylamine | 2 | 10 | 10 | 10 | 0 |
| | Fluoranthene | 2 | 90 | 100 | 95 | 48 |
| | Fluorene | 2 | 75 | 110 | 93 | 11 |
| | Indeno(1,2,3-cd)pyrene | 2 | 32 | 115 | 74 | 11 |
| | Indole | 2 | 75 | 85 | 80 | 8 |
| | N-Nitrosodi-n-propylamine | 2 | 70 | 80 | 75 | 5 |
| | N-Nitrosodiphenylamine | 2 | 85 | 95 | 90 | 1 |
| | Naphthalene | 10 | 43 | 90 | 70 | 9 |
| | Perylene | 2 | 50 | 100 | 75 | 10 |
| | Phenanthrene | 2 | 80 | 100 | 90 | 45 |
| | Pyrene | 2 | 95 | 95 | 95 | 48 |
| 20 | 2,3,4,5-Tetrachlorophenol | 1 | 75 | 75 | 75 | 38 |
| | 2,3,4,6-Tetrachlorophenol | 1 | 75 | 75 | 75 | 5 |
| | 2,3,4-Trichlorophenol | 1 | 100 | 100 | 100 | 33 |
| | 2,3,5,6-Tetrachlorophenol | 1 | 85 | 85 | 85 | 11 |
| | 2,3,5-Trichlorophenol | 1 | 100 | 100 | 100 | 15 |
| | 2,4,5-Trichlorophenol | 1 | 95 | 95 | 95 | 15 |
| | 2,4,6-Trichlorophenol | 1 | 105 | 105 | 105 | 16 |
| | 2,4-Dichlorophenol | 1 | 75 | 75 | 75 | 9 |
| | 2,4-Dimethylphenol | 1 | 41 | 41 | 41 | 1 |
| | 2,4-Dinitrophenol | 1 | 90 | 90 | 90 | 0 |
| | 2,6-Dichlorophenol | 1 | 75 | 75 | 75 | 8 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-4 (continued)

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

STELCO STEEL LAKE ERIE WORKS
FOR THE PERIOD FROM 891101 TO 900731

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 20 | 2-Chlorophenol | 1 | 85 | 85 | 85 | 5 |
| | 4,6-Dinitro-o-cresol | 1 | 50 | 50 | 50 | 0 |
| | 4-Chloro-3-methylphenol | 1 | 90 | 90 | 90 | 12 |
| | 4-Nitrophenol | 1 | 65 | 65 | 65 | 9 |
| | Pentachlorophenol | 1 | 60 | 60 | 60 | 9 |
| | Phenol | 1 | 39 | 39 | 39 | 3 |
| | m-Cresol | 1 | 65 | 65 | 65 | 4 |
| | o-Cresol | 1 | 70 | 70 | 70 | 4 |
| | p-Cresol | 1 | 75 | 75 | 75 | 4 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 1 | 0 | 0 | 0 | 0 |
| | 1,2,3,5-Tetrachlorobenzene | 1 | 0 | 0 | 0 | 0 |
| | 1,2,3-Trichlorobenzene | 1 | 0 | 0 | 0 | 0 |
| | 1,2,4,5-Tetrachlorobenzene | 1 | 0 | 0 | 0 | 0 |
| | 1,2,4-Trichlorobenzene | 1 | 0 | 0 | 0 | 0 |
| | 2,4,5-Trichlorotoluene | 1 | 0 | 0 | 0 | 0 |
| | Hexachlorobenzene | 1 | 0 | 0 | 0 | 0 |
| | Hexachlorobutadiene | 1 | 0 | 0 | 0 | 0 |
| | Hexachlorocyclopentadiene | 1 | 0 | 0 | 0 | 0 |
| | Hexachloroethane | 1 | 0 | 0 | 0 | 0 |
| | Octachlorostyrene | 1 | 0 | 0 | 0 | 0 |
| | Pentachlorobenzene | 1 | 0 | 0 | 0 | 0 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-5

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

ATLAS SPECIALTY STEEL
FOR THE PERIOD FROM 891101 TO 901031

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 16 | 1,1,2,2-Tetrachloroethane | 2 | 32 | 67 | 50 | 1 |
| | 1,1,2-Trichloroethane | 2 | 53 | 67 | 60 | 9 |
| | 1,1-Dichloroethane | 2 | 14 | 56 | 35 | 4 |
| | 1,1-Dichloroethylene | 2 | 29 | 41 | 35 | 1 |
| | 1,2-Dichlorobenzene | 2 | 60 | 89 | 75 | 24 |
| | 1,2-Dichloroethane | 2 | 66 | 76 | 71 | 8 |
| | 1,2-Dichloropropane | 2 | 54 | 57 | 56 | 6 |
| | 1,3-Dichlorobenzene | 2 | 38 | 56 | 47 | 19 |
| | 1,4-Dichlorobenzene | 2 | 60 | 84 | 72 | 19 |
| | Bromoform | 2 | 64 | 71 | 68 | 2 |
| | Carbon Tetrachloride | 2 | 17 | 31 | 24 | 2 |
| | Chlorobenzene | 2 | 55 | 58 | 57 | 36 |
| | Chloroform | 2 | 39 | 56 | 48 | 10 |
| | Chloromethane | 2 | 53 | 67 | 60 | 2 |
| | Cis-1,3-Dichloropropylene | 2 | 22 | 67 | 45 | 3 |
| | Dibromochloromethane | 2 | 43 | 61 | 52 | 7 |
| | Ethylene Dibromide | 2 | 48 | 61 | 55 | 8 |
| | Methylene Chloride | 2 | 50 | 92 | 71 | 25 |
| | Tetrachloroethylene | 2 | 14 | 47 | 31 | 3 |
| | Trans-1,2-Dichloroethylene | 2 | 30 | 47 | 39 | 2 |
| | Trans-1,3-Dichloropropylene | 2 | 32 | 40 | 36 | 2 |
| | Trichloroethylene | 2 | 51 | 58 | 55 | 3 |
| | Trichlorofluoromethane | 2 | 41 | 47 | 44 | 7 |
| | Vinyl Chloride | 2 | 60 | 90 | 75 | 2 |
| 19 | 1-Chloronaphthalene | 2 | 28 | 31 | 30 | 1 |
| | 1-Methylnaphthalene | 2 | 28 | 31 | 30 | 1 |
| | 2,4-Dinitrotoluene | 2 | 38 | 41 | 40 | 5 |
| | 2,6-Dinitrotoluene | 2 | 38 | 42 | 40 | 6 |
| | 2-Chloronaphthalene | 2 | 28 | 36 | 32 | 2 |
| | 2-Methylnaphthalene | 2 | 32 | 32 | 32 | 1 |
| | 4-Bromophenyl Phenyl Ether | 2 | 93 | 95 | 94 | 31 |
| | 4-Chlorophenyl Phenyl Ether | 2 | 84 | 89 | 87 | 10 |
| | 5-Nitro, Acenaphthene | 2 | 42 | 52 | 47 | 1 |
| | Acenaphthene | 2 | 76 | 76 | 76 | 6 |
| | Acenaphthylene | 2 | 69 | 72 | 71 | 5 |
| | Anthracene | 2 | 83 | 88 | 86 | 7 |
| | Benzo(a)anthracene | 2 | 55 | 109 | 82 | 16 |
| | Benzo(a)pyrene | 2 | 52 | 86 | 69 | 12 |
| | Benzo(b)fluoranthene | 2 | 59 | 99 | 79 | 11 |
| | Benzo(g,h,i)perylene | 2 | 61 | 99 | 80 | 11 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-5 (continued)

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

ATLAS SPECIALTY STEEL
FOR THE PERIOD FROM 891101 TO 901031

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 19 | Benzo(k)fluoranthene | 2 | 64 | 101 | 83 | 12 |
| | Benzobutylphthalate | 2 | 13 | 20 | 17 | 3 |
| | Bis(2-chloroethoxyl)methane | 2 | 110 | 129 | 120 | 3 |
| | Bis(2-chloroethyl)ether | 2 | 56 | 88 | 72 | 2 |
| | Bis(2-chloroisopropyl)ether | 2 | 70 | 85 | 78 | 4 |
| | Bis(2-ethylhexyl)phthalate | 2 | 40 | 125 | 83 | 4 |
| | Camphene | 2 | 30 | 32 | 31 | 1 |
| | Chrysene | 2 | 73 | 97 | 85 | 28 |
| | Di-n-butyl Phthalate | 2 | 36 | 60 | 48 | 1 |
| | Dibenz(a,h)anthracene | 2 | 59 | 104 | 82 | 6 |
| | Diphenylamine | 2 | 80 | 80 | 80 | 1 |
| | Fluoranthene | 2 | 99 | 109 | 104 | 26 |
| | Fluorene | 2 | 83 | 85 | 84 | 5 |
| | Indeno(1,2,3-cd)pyrene | 2 | 62 | 102 | 82 | 6 |
| | Indole | 2 | 41 | 61 | 51 | 3 |
| | N-Nitrosodi-n-propylamine | 2 | 25 | 50 | 38 | 1 |
| | N-Nitrosodiphenylamine | 2 | 85 | 92 | 89 | 1 |
| | Naphthalene | 2 | 63 | 64 | 64 | 4 |
| | Perylene | 2 | 29 | 62 | 46 | 3 |
| | Phenanthrene | 2 | 91 | 92 | 92 | 23 |
| | Pyrene | 2 | 95 | 105 | 100 | 25 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 2 | 74 | 97 | 86 | 86 |
| | 1,2,3,5-Tetrachlorobenzene | 2 | 60 | 100 | 80 | 80 |
| | 1,2,3-Trichlorobenzene | 2 | 42 | 83 | 63 | 63 |
| | 1,2,4,5-Tetrachlorobenzene | 2 | 60 | 100 | 80 | 80 |
| | 1,2,4-Trichlorobenzene | 2 | 32 | 76 | 54 | 54 |
| | 2,4,5-Trichlorotoluene | 2 | 35 | 87 | 61 | 61 |
| | Hexachlorobenzene | 2 | 108 | 109 | 109 | 109 |
| | Hexachlorobutadiene | 2 | 26 | 64 | 45 | 45 |
| | Hexachlorocyclopentadiene | 2 | 42 | 51 | 47 | 47 |
| | Hexachloroethane | 2 | 62 | 62 | 62 | 62 |
| | Octachlorostyrene | 2 | 38 | 42 | 40 | 40 |
| | Pentachlorobenzene | 2 | 112 | 118 | 115 | 115 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-6

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

IVACO ROLLING MILLS
FOR THE PERIOD FROM 891101 TO 901031

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 16 | 1,1,2,2-Tetrachloroethane | 3 | 45 | 105 | 65 | 1 |
| | 1,1,2-Trichloroethane | 3 | 83 | 84 | 83 | 6 |
| | 1,1-Dichloroethane | 3 | 70 | 100 | 80 | 5 |
| | 1,1-Dichloroethylene | 3 | 24 | 151 | 66 | 1 |
| | 1,2-Dichlorobenzene | 3 | 103 | 119 | 108 | 3 |
| | 1,2-Dichloroethane | 3 | 87 | 94 | 89 | 5 |
| | 1,2-Dichloropropane | 3 | 72 | 93 | 79 | 4 |
| | 1,3-Dichlorobenzene | 3 | 90 | 157 | 112 | 5 |
| | 1,4-Dichlorobenzene | 3 | 70 | 102 | 81 | 2 |
| | Bromoform | 3 | 70 | 97 | 88 | 1 |
| | Bromomethane | 3 | 17 | 184 | 128 | 2 |
| | Carbon Tetrachloride | 3 | 80 | 154 | 105 | 4 |
| | Chlorobenzene | 3 | 97 | 123 | 114 | 6 |
| | Chloroform | 3 | 38 | 46 | 43 | 2 |
| | Chloromethane | 3 | 11 | 40 | 30 | 0 |
| | Cis-1,3-Dichloropropylene | 3 | 1 | 16 | 6 | 0 |
| | Dibromochloromethane | 3 | 73 | 100 | 82 | 3 |
| | Ethylene Dibromide | 3 | 77 | 86 | 80 | 3 |
| | Methylene Chloride | 3 | 27 | 60 | 38 | 1 |
| | Tetrachloroethylene | 3 | 113 | 129 | 118 | 5 |
| | Trans-1,2-Dichloroethylene | 3 | 61 | 72 | 68 | 2 |
| | Trans-1,3-Dichloropropylene | 3 | 12 | 24 | 16 | 0 |
| | Trichloroethylene | 3 | 170 | 173 | 171 | 4 |
| | Trichlorofluoromethane | 3 | 3 | 73 | 50 | 2 |
| | Vinyl Chloride | 3 | 71 | 93 | 78 | 1 |
| 17 | Benzene | 3 | 70 | 77 | 75 | 6 |
| | Ethylbenzene | 3 | 93 | 97 | 94 | 7 |
| | Styrene | 3 | 60 | 97 | 85 | 6 |
| | Toluene | 3 | 80 | 90 | 83 | 7 |
| | m-Xylene and p-Xylene | 3 | 94 | 183 | 153 | 5 |
| | o-Xylene | 3 | 95 | 127 | 116 | 9 |
| 19 | 1-Chloronaphthalene | 3 | 98 | 133 | 121 | 2 |
| | 1-Methylnaphthalene | 3 | 103 | 131 | 122 | 2 |
| | 2,4-Dinitrotoluene | 3 | 112 | 166 | 148 | 8 |
| | 2,6-Dinitrotoluene | 3 | 108 | 162 | 144 | 9 |
| | 2-Chloronaphthalene | 3 | 102 | 146 | 131 | 3 |
| | 2-Methylnaphthalene | 3 | 100 | 136 | 124 | 2 |
| | 4-Bromophenyl Phenyl Ether | 3 | 124 | 139 | 134 | 19 |
| | 4-Chlorophenyl Phenyl Ether | 3 | 105 | 138 | 127 | 6 |
| | 5-Nitro, Acenaphthene | 3 | 127 | 158 | 148 | 1 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-6 (continued)

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

IVACO ROLLING MILLS
FOR THE PERIOD FROM 891101 TO 901031

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 19 | Acenaphthene | 3 | 104 | 131 | 122 | 4 |
| | Acenaphthylene | 3 | 105 | 137 | 126 | 4 |
| | Anthracene | 3 | 121 | 144 | 136 | 5 |
| | Benzo(a)anthracene | 3 | 110 | 145 | 133 | 11 |
| | Benzo(a)pyrene | 3 | 126 | 172 | 157 | 11 |
| | Benzo(b)fluoranthene | 3 | 98 | 140 | 126 | 8 |
| | Benzo(g,h,i)perylene | 3 | 115 | 123 | 120 | 7 |
| | Benzo(k)fluoranthene | 3 | 98 | 141 | 127 | 8 |
| | Benzobutylphthalate | 3 | 148 | 195 | 179 | 13 |
| | Bis(2-chloroethoxyl)methane | 3 | 99 | 151 | 134 | 2 |
| | Bis(2-chloroethyl)ether | 3 | 98 | 149 | 132 | 1 |
| | Bis(2-chloroisopropyl)ether | 3 | 104 | 122 | 116 | 2 |
| | Bis(2-ethylhexyl)phthalate | 3 | 134 | 190 | 171 | 3 |
| | Camphene | 3 | 68 | 100 | 89 | 1 |
| | Chrysene | 3 | 114 | 144 | 134 | 19 |
| | Di-n-butyl Phthalate | 3 | 57 | 129 | 81 | 1 |
| | Di-n-octyl Phthalate | 2 | 0 | 0 | 0 | 0 |
| | Dibenz(a,h)anthracene | 3 | 47 | 65 | 53 | 2 |
| | Diphenylamine | 3 | 101 | 146 | 131 | 0 |
| | Fluoranthene | 3 | 149 | 161 | 157 | 17 |
| | Fluorene | 3 | 107 | 136 | 126 | 3 |
| | Indeno(1,2,3-cd)pyrene | 3 | 12 | 22 | 15 | 1 |
| | Indole | 3 | 115 | 151 | 139 | 3 |
| | N-Nitrosodi-n-propylamine | 3 | 102 | 136 | 125 | 2 |
| | Naphthalene | 3 | 96 | 129 | 118 | 3 |
| | Perylene | 3 | 112 | 130 | 124 | 4 |
| | Phenanthrene | 3 | 123 | 138 | 133 | 14 |
| | Pyrene | 3 | 149 | 149 | 149 | 16 |
| 20 | 2,3,4,5-Tetrachlorophenol | 3 | 76 | 244 | 188 | 139 |
| | 2,3,4,6-Tetrachlorophenol | 3 | 115 | 396 | 302 | 26 |
| | 2,3,4-Trichlorophenol | 3 | 72 | 133 | 113 | 47 |
| | 2,3,5,6-Tetrachlorophenol | 3 | 105 | 273 | 217 | 33 |
| | 2,3,5-Trichlorophenol | 3 | 105 | 162 | 143 | 27 |
| | 2,4,5-Trichlorophenol | 3 | 52 | 143 | 113 | 26 |
| | 2,4,6-Trichlorophenol | 3 | 105 | 146 | 132 | 24 |
| | 2,4-Dichlorophenol | 3 | 61 | 115 | 97 | 14 |
| | 2,4-Dimethylphenol | 3 | 75 | 99 | 91 | 3 |
| | 2,4-Dinitrophenol | 3 | 28 | 211 | 150 | 4 |
| | 2,6-Dichlorophenol | 3 | 59 | 115 | 96 | 13 |
| | 2-Chlorophenol | 3 | 111 | 112 | 112 | 8 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-6 (continued)

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

IVACO ROLLING MILLS
FOR THE PERIOD FROM 891101 TO 901031

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 20 | 4,6-Dinitro-o-cresol | 3 | 24 | 156 | 112 | 6 |
| | 4-Chloro-3-methylphenol | 3 | 68 | 118 | 101 | 17 |
| | 4-Nitrophenol | 3 | 37 | 179 | 132 | 24 |
| | Pentachlorophenol | 3 | 97 | 111 | 106 | 21 |
| | Phenol | 3 | 44 | 68 | 60 | 6 |
| | m-Cresol | 3 | 101 | 116 | 106 | 8 |
| | o-Cresol | 3 | 67 | 98 | 88 | 6 |
| | p-Cresol | 3 | 52 | 101 | 85 | 7 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 3 | 0 | 73 | 49 | 4 |
| | 1,2,3,5-Tetrachlorobenzene | 3 | 0 | 72 | 48 | 4 |
| | 1,2,3-Trichlorobenzene | 3 | 0 | 69 | 46 | 4 |
| | 1,2,4,5-Tetrachlorobenzene | 3 | 0 | 68 | 45 | 3 |
| | 1,2,4-Trichlorobenzene | 3 | 0 | 81 | 54 | 4 |
| | 2,4,5-Trichlorotoluene | 3 | 0 | 69 | 46 | 4 |
| | Hexachlorobenzene | 3 | 0 | 76 | 51 | 4 |
| | Hexachlorobutadiene | 3 | 0 | 75 | 50 | 4 |
| | Hexachlorocyclopentadiene | 3 | 0 | 65 | 43 | 3 |
| | Hexachloroethane | 3 | 0 | 77 | 51 | 4 |
| | Octachlorostyrene | 3 | 0 | 71 | 47 | 4 |
| | Pentachlorobenzene | 3 | 0 | 72 | 48 | 4 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-7

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

LASCO
FOR THE PERIOD FROM 891101 TO 901031

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 16 | 1,1,2,2-Tetrachloroethane | 2 | 0 | 94 | 47 | 3 |
| | 1,1,2-Trichloroethane | 2 | 0 | 97 | 49 | 19 |
| | 1,1-Dichloroethane | 2 | 0 | 90 | 45 | 14 |
| | 1,1-Dichloroethylene | 2 | 0 | 99 | 50 | 4 |
| | 1,2-Dichlorobenzene | 2 | 0 | 99 | 50 | 42 |
| | 1,2-Dichloroethane | 2 | 0 | 96 | 48 | 14 |
| | 1,2-Dichloropropane | 2 | 0 | 100 | 50 | 13 |
| | 1,3-Dichlorobenzene | 2 | 0 | 100 | 50 | 55 |
| | 1,4-Dichlorobenzene | 2 | 0 | 99 | 50 | 35 |
| | Bromoform | 2 | 0 | 90 | 45 | 5 |
| | Bromomethane | 2 | 0 | 87 | 44 | 5 |
| | Carbon Tetrachloride | 2 | 0 | 94 | 47 | 9 |
| | Chlorobenzene | 2 | 0 | 98 | 49 | 84 |
| | Chloroform | 2 | 0 | 92 | 46 | 26 |
| | Chloromethane | 2 | 0 | 97 | 49 | 5 |
| | Cis-1,3-Dichloropropylene | 2 | 0 | 93 | 47 | 10 |
| | Dibromochloromethane | 2 | 0 | 99 | 50 | 18 |
| | Ethylene Dibromide | 2 | 0 | 97 | 49 | 19 |
| | Methylene Chloride | 2 | 0 | 99 | 50 | 46 |
| | Tetrachloroethylene | 2 | 0 | 96 | 48 | 11 |
| | Trans-1,2-Dichloroethylene | 2 | 0 | 101 | 51 | 9 |
| | Trans-1,3-Dichloropropylene | 2 | 0 | 99 | 50 | 7 |
| | Trichloroethylene | 2 | 0 | 97 | 49 | 6 |
| | Trichlorofluoromethane | 2 | 0 | 97 | 49 | 19 |
| | Vinyl Chloride | 2 | 0 | 99 | 50 | 5 |
| 19 | 1-Chloronaphthalene | 2 | 49 | 89 | 69 | 2 |
| | 1-Methylnaphthalene | 2 | 61 | 85 | 73 | 2 |
| | 2,4-Dinitrotoluene | 2 | 91 | 92 | 92 | 13 |
| | 2,6-Dinitrotoluene | 2 | 75 | 88 | 82 | 12 |
| | 2-Chloronaphthalene | 2 | 44 | 80 | 62 | 3 |
| | 2-Methylnaphthalene | 2 | 75 | 86 | 81 | 4 |
| | 4-Bromophenyl Phenyl Ether | 2 | 78 | 83 | 81 | 30 |
| | 4-Chlorophenyl Phenyl Ether | 2 | 84 | 99 | 92 | 10 |
| | 5-Nitro, Acenaphthene | 2 | 67 | 77 | 72 | 2 |
| | Acenaphthene | 2 | 76 | 89 | 83 | 9 |
| | Acenaphthylene | 2 | 51 | 88 | 70 | 10 |
| | Anthracene | 2 | 45 | 69 | 57 | 4 |
| | Benzo(a)anthracene | 2 | 71 | 80 | 76 | 17 |
| | Benzo(a)pyrene | 2 | 62 | 72 | 67 | 11 |
| | Benzo(b)fluoranthene | 2 | 80 | 99 | 90 | 15 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

APPENDIX IX

TABLE IX-7 (continued)

SPIKED TRAVELLING BLANK DATA
PERCENT RECOVERY AND CONCENTRATION RATIO
FOR THE WHOLE PLANT

LASCO
FOR THE PERIOD FROM 891101 TO 901031

% RECOVERY

| ATG | PARAMETER | TNS | MINIMUM | MAXIMUM | AVERAGE | CONC RATIO |
|---|---|---|---|---|---|---|
| 19 | Benzo(g,h,i)perylene | 2 | 84 | 106 | 95 | 16 |
| | Benzo(k)fluoranthene | 2 | 83 | 84 | 84 | 13 |
| | Benzobutylphthalate | 2 | 80 | 92 | 86 | 29 |
| | Bis(2-chloroethoxyl)methane | 2 | 90 | 112 | 101 | 6 |
| | Bis(2-chloroethyl)ether | 2 | 66 | 84 | 75 | 2 |
| | Bis(2-chloroisopropyl)ether | 2 | 74 | 85 | 80 | 4 |
| | Bis(2-ethylhexyl)phthalate | 2 | 73 | 88 | 81 | 7 |
| | Camphene | 2 | 90 | 95 | 93 | 3 |
| | Chrysene | 2 | 62 | 83 | 73 | 22 |
| | Di-n-butyl Phthalate | 2 | 85 | 95 | 90 | 5 |
| | Di-n-octyl Phthalate | 2 | 84 | 86 | 85 | 8 |
| | Dibenz(a,h)anthracene | 2 | 84 | 88 | 86 | 7 |
| | Diphenylamine | 2 | 88 | 93 | 91 | 1 |
| | Fluoranthene | 2 | 90 | 117 | 104 | 31 |
| | Fluorene | 2 | 54 | 87 | 71 | 4 |
| | Indeno(1,2,3-cd)pyrene | 2 | 77 | 79 | 78 | 6 |
| | Indole | 2 | 82 | 84 | 83 | 5 |
| | N-Nitrosodi-n-propylamine | 2 | 90 | 95 | 93 | 6 |
| | N-Nitrosodiphenylamine | 2 | 84 | 87 | 86 | 1 |
| | Naphthalene | 2 | 83 | 89 | 86 | 8 |
| | Perylene | 2 | 78 | 86 | 82 | 6 |
| | Phenanthrene | 2 | 70 | 78 | 74 | 20 |
| | Pyrene | 2 | 70 | 75 | 73 | 18 |
| 23 | 1,2,3,4-Tetrachlorobenzene | 2 | 84 | 85 | 85 | 857 |
| | 1,2,3,5-Tetrachlorobenzene | 2 | 87 | 88 | 88 | 887 |
| | 1,2,3-Trichlorobenzene | 2 | 71 | 90 | 81 | 908 |
| | 1,2,4,5-Tetrachlorobenzene | 2 | 69 | 87 | 78 | 881 |
| | 1,2,4-Trichlorobenzene | 2 | 78 | 89 | 84 | 900 |
| | 2,4,5-Trichlorotoluene | 2 | 88 | 99 | 94 | 890 |
| | Hexachlorobenzene | 2 | 35 | 89 | 62 | 898 |
| | Hexachlorobutadiene | 2 | 82 | 90 | 86 | 909 |
| | Hexachlorocyclopentadiene | 2 | 51 | 89 | 70 | 893 |
| | Hexachloroethane | 2 | 83 | 89 | 86 | 905 |
| | Octachlorostyrene | 2 | 54 | 91 | 73 | 911 |
| | Pentachlorobenzene | 2 | 67 | 85 | 76 | 856 |

TNS = NUMBER OF VALID SAMPLES
% RECOVERY RATIO = SPIKED VALUE DIVIDED BY EXPECTED VALUE x 100
CONC RATIO = AVERAGE EXPECTED CONCENTRATION DIVIDED BY RMDL

# Glossary

## Explanatory Notes

| Term Used | Explanation |
|---|---|
| ATG | Analytical Test Group |
| RMDL | Regulation Method Detection Limit |
| PLANT | Plant or Company Name |
| POINT | Control Point Number (Stream Identification Number) |
| CLASS | Classification Code for Frequency of Occurrence<br><br>FH = Frequent High Level<br>FM = Frequent Medium Level<br>FL = Frequent Low Level<br>IH = Infrequent High Level<br>IM = Infrequent Medium Level<br>IL = Infrequent Low Level<br>NO = Non-occurrence |
| TNS | Total Number of Valid Samples |
| MONAVR | Effluent Monitoring Average Concentration Ratio |
| GAAAVR | Travelling Blank Average Concentration Ratio |
| DAAMIRC | Spiked Travelling Blank Minimum Percent Recovery |
| DAAAVRC | Spiked Travelling Blank Average Percent Recovery |
| DAAMARC | Spiked Travelling Blank Maximum Percent Recovery |
| FAAAVD | Field Duplicate Average Concentration Ratio |
| AAUAVD | Uncorrected Sample Average Concentration Difference Ratio |
| STATUS | QA/QC Data Assessment Status<br>1 = Data are of Reliable Quality<br>2 = Data are of Equivocal Quality<br>3 = Data are of Unreliable Quality |